Berliner
Astronomisches Jahrbuch
für
1919

144. Jahrgang

Herausgegeben

von dem

Königlichen Astronomischen Rechen-Institut

zu

Berlin

Berlin
Ferd. Dümmlers Verlagsbuchhandlung
(Kommissionsverlag)
1917

Berliner
Astronomisches Jahrbuch

für

1919

---

144. Jahrgang

Herausgegeben

von dem

Königlichen Astronomischen Rechen-Institut

zu

Berlin



Berlin

Ferd. Dümmlers Verlagsbuchhandlung

(Kommissionsverlag)

1917

Königliches Astronomisches Rechen-Institut

Berlin-Dahlem, Altenstein Str. 40

Direktor: Prof. Dr. F. Cohn, Geh. Regierungsrat

Observatoren: F. K. Ginzel, Professor
Dr. A. Berberich, Professor
Dr. J. Peters, Professor
Dr. J. Riem, Professor
Dr. A. Stichtenoth
Dr. H. Clemens
Dr. P. V. Neugebauer

Hilfsarbeiter: Dr. G. Stracke

Mitarbeiter: Dr. P. Neugebauer, Professor

Vorwort

Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben des Jahrbuchs bezogen sind, der Meridian von Greenwich. Die Zeitangaben sind in Mittlerer Zeit Greenwich, die Kulminations-Phänomene für die Kulmination im Meridian von Greenwich gegeben.

Die Grundlagen des Berliner Astronomischen Jahrbuchs bilden:

Für die Sonne und die großen Planeten:

Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill, enthalten in:

Astronomical Papers of the American Ephemeris,

Vol. VI, Part I—IV: *Tables of the four inner planets,*

Vol. VII, Part I—IV: *Tables of Jupiter, Saturn, Uranus, Neptune.*

Als Sonnenhalbmesser in der mittleren Entfernung ist nach Auwers angenommen: $R = 15' 59''.63$.

Für den Mond:

Tables de la lune von P. A. Hansen, unter Verbesserung der Tafel 34 für das Fundamentalargument nach Newcomb. Außerdem enthalten die Mondörter die empirischen Korrektionen von Newcomb nach: »Corrections to Hansen's tables of the Moon« (Washington, 1878).

Mittlere Mondparallaxe nach Hansen $57' 2''.27$.

Der geozentrische Mondhalbmesser $r_☾$ ist aus der Äquatorial-Horizontalparallaxe $p_☾$ gerechnet nach der Formel

$$r_☾ = 0.272506\, p_☾ + 1''.50$$

Als Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (A. N. 199, 263) angenommen: $J = 1° 32' 20''$.

Für die Fixsterne:

Neuer Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung Nr. 33 des Königlichen Astronomischen Rechen-Instituts).

Die Sternspektra sind der »Revised Harvard Photometry (Harvard Annals, vol. 50)« entnommen.

Als Werte der fundamentalen Reduktionsgrößen sind angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. 28, 67)
Die Nutations-Konstante . . . . 9″.21
Die Nutations-Größen nach S. Newcomb (Bull. Astr. 15, 241)
Die Aberrations-Konstante . . . . 20″.47
Die Sonnen-Parallaxe . . . . . . 8″.80
Die Abplattung der Erde . . . 1:297.0

Für die Satelliten:

Die Angaben über die 4 älteren Jupiterstrabanten beruhen auf den neuen Tafeln von R. A. Sampson (*Tables of the four great Satellites of Jupiter.* London 1910), die Angaben über die 8 älteren Saturnssatelliten auf den von H. Struve ermittelten Werten (Näheres s. Erläuterungen).

In allen Ephemeriden der Sonne, der Planeten und der Fixsterne sind die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Der Inhalt des Jahrbuchs hat gegen das Vorjahr nur ganz geringfügige Änderungen erfahren. Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen, von der Sonderabdrücke auf Wunsch durch das Astronomische Rechen-Institut, Berlin-Dahlem, zu erhalten sind.

Die bisher als Anhang des Jahrbuchs gegebenen Bahnelemente und Oppositions-Ephemeriden der Kleinen Planeten erscheinen von jetzt an als besondere Veröffentlichung des Rechen-Instituts.

Fritz Cohn.

Inhalt

	Seite
Vorwort	III
Zeit- und Festrechnung	VI
Sonnenephemeride	2
Rechtwinklige Sonnenkoordinaten	20
Mondphasen	39
Mondephemeride	40
Mondbewegung und Lage des Mondäquators	58
Ephemeride des Mondkraters Mösting A	59
Geozentrische Örter der großen Planeten	64
Heliozentrische Örter der großen Planeten	109
Mittlere Örter von 925 Fixsternen	114
Scheinbare Örter von 555 Zeitsternen	138
Scheinbare Örter von 9 nördlichen Polsternen	278
Scheinbare Örter von 9 südlichen Polsternen	308
Formeln für die Reduktion auf den scheinbaren Ort	338
Hilfsgrößen zur Berechnung der Präzession und der Reduktion auf den scheinbaren Ort	339
Finsternisse	376
Sternbedeckungen	382
Verfinsterungen der Jupiterstrabanten	386
Saturn und Saturnsring	388
Erscheinungen der Saturnstrabanten	392
Konstellationen	417
Hilfstafeln	418
Koordinaten der Sternwarten	436
Normalzeiten der wichtigeren Länder	444
Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs	445
Berichtigungen	459
Alphabetisches Sachregister	460

Zeit- und Festrechnung 1919

Das Jahr 1919 entspricht dem
Jahr 6632 der Julianischen Periode und dem
Jahr 7427 — 7428 der Byzantinischen Ära

Gregorianischer oder Neuer Kalender		Julianischer oder Alter Kalender	Tag im Julianischen Kalender	Tag im Gregorianischen Kalender
Septuagesima	16. Febr.	Septuagesima	3. Febr.	16. Febr.
Aschermittwoch	5. März	Aschermittwoch	20. Febr.	5. März
I. Quatember	12. März	I. Quatember	27. Febr.	12. März
Ostersonntag	20. April	Ostersonntag	7. April	20. April
Himmelfahrt	29. Mai	Himmelfahrt	16. Mai	29. Mai
Pfingstsonntag	8. Juni	Pfingstsonntag	26. Mai	8. Juni
II. Quatember	11. Juni	II. Quatember	29. Mai	11. Juni
III. Quatember	17. Sept.	III. Quatember	18. Sept.	1. Okt.
I. Advent	30. Nov.	I. Advent	1. Dez.	14. Dez.
IV. Quatember	17. Dez.	IV. Quatember	18. Dez.	31. Dez.

Kalender der Mohammedaner

1337 (Gemeinjahr)			
Rebî-el-accher 1	1919	Jan.	4
Dschemâdi-el-awwel 1	»	Febr.	2
Dschemâdi-el-accher 1	»	März	4
Redscheb 1	»	April	2
Schabân 1	»	Mai	2
Ramadân 1	»	Mai	31
Schewwâl 1	»	Juni	30
Dsû 'l-kade 1	»	Juli	29
Dsû 'l-hedsche 1	»	Aug.	28
1338 (Schaltjahr)			
Moharrem 1	1919	Sept.	26
Safar 1	»	Okt.	26
Rebî-el-awwel 1	»	Nov.	24
Rebî-el-accher 1	»	Dez.	24

Kalender der Juden

5679 (Abgekürztes Schaltjahr)

Schebat	1	. . . .	1919	Jan.	2
Adar	1	. . . .	»	Febr.	1
	14	Klein Purim	»		14
Veadar	1	. . . .	»	März	3
	11	Fasten-Esther	»		13
	14	Purim	»		16
	15	Schuschan-Purim	»		17
Nisan	1	. . . .	»	April	1
	15	Passah-Anfang*	»		15
	16	Zweites Fest*	»		16
	21	Siebentes Fest*	»		21
	22	Achtes Fest*	»		22
Ijar	1	. . . .	»	Mai	1
	18	Lag-B'omer	»		18
Sivan	1	. . . .	»		30
	6	Wochenfest*	»	Juni	4
	7	Zweites Fest*	»		5
Thamuz	1	. . . .	»		29
	17	Fasten. Tempeleroberung	»	Juli	15
Ab	1	. . . .	»		28
	9	Fasten. Tempelverbrennung . . .	»	Aug.	5
Elul	1	. . . .	»		27

5680 (Ordentliches Gemeinjahr)

Tischri	1	Neujahrsfest*	1919	Sept.	25
	2	Zweites Fest*	»		26
	4	Fasten-Gedaljah	»		28
	10	Versöhnungsfest*	»	Okt.	4
	15	Laubhüttenfest*	»		9
	16	Zweites Fest*	»		10
	21	Palmenfest	»		15
	22	Versammlung oder Laubhüttenende* .	»		16
	23	Gesetzesfreude*	»		17
Marcheschwan	1	. . . .	»		25
Kislev	1	. . . .	»	Nov.	23
	25	Tempelweihe	»	Dez.	17
Tebet	1	. . . .	»		23

Die mit * bezeichneten Festtage werden streng gefeiert

Astronomische Zeichen und Abkürzungen

Bezeichnung
der
Wochentage

☉ Sonntag
☾ Montag
♂ Dienstag
☿ Mittwoch
♃ Donnerstag
♀ Freitag
♄ Sonnabend

Adspekten

☌ Konjunktion
□ Quadratur
☍ Opposition

Mondphasen

● Neumond
◐ Erstes Viertel
○ Vollmond
◑ Letztes Viertel

☊ Aufsteigender } Knoten
☋ Niedersteigender } Knoten

Zeichen
des Tierkreises und der Himmelskörper

♈ Widder . . .	0	Grad	
♉ Stier	30	»	☉ Sonne
♊ Zwillinge . .	60	»	☾ Mond
♋ Krebs	90	»	☿ Merkur
♌ Löwe	120	»	♀ Venus
♍ Jungfrau . .	150	»	♁ Erde
♎ Wage	180	»	♂ Mars
♏ Skorpion . .	210	»	♃ Jupiter
♐ Schütze . . .	240	»	♄ Saturn
♑ Steinbock . .	270	»	♅ Uranus
♒ Wassermann	300	»	♆ Neptun
♓ Fische . . .	330	»	

Sonne, Mond, Große Planeten

1919

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1919		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Jan. 0.0	Di	+ 2 50.27	28.82	18 39 14.78	4 25.39	−23 8 32.1	4 22.9	70.98	16 15.91
1.0	Mi	3 19.09	28.53	18 43 40.17	4 25.09	23 4 9.2	4 50.6	70.94	16 15.92
2.0	Do	3 47.62	28.20	18 48 5.26	4 24.75	22 59 18.6	5 18.1	70.90	16 15.92
3.0	Fr	4 15.82	27.83	18 52 30.01	4 24.39	22 54 0.5	5 45.5	70.85	16 15.92
4.0	Sa	4 43.65	27.44	18 56 54.40	4 23.99	22 48 15.0	6 12.6	70.80	16 15.92
5.0	St	5 11.09	27.00	19 1 18.39	4 23.56	22 42 2.4	6 39.5	70.74	16 15.92
6.0	Mo	+ 5 38.09	26.53	19 5 41.95	4 23.09	−22 35 22.9	7 6.3	70.68	16 15.91
7.0	Di	6 4.62	26.04	19 10 5.04	4 22.60	22 28 16.6	7 32.9	70.62	16 15.89
8.0	Mi	6 30.66	25.51	19 14 27.64	4 22.07	22 20 43.7	7 59.1	70.55	16 15.87
9.0	Do	6 56.17	24.96	19 18 49.71	4 21.52	22 12 44.6	8 25.2	70.48	16 15.85
10.0	Fr	7 21.13	24.39	19 23 11.23	4 20.94	22 4 19.4	8 51.1	70.41	16 15.82
11.0	Sa	7 45.52	23.80	19 27 32.17	4 20.36	21 55 28.3	9 16.6	70.33	16 15.78
12.0	St	+ 8 9.32	23.18	19 31 52.53	4 19.73	−21 46 11.7	9 41.9	70.25	16 15.74
13.0	Mo	8 32.50	22.54	19 36 12.26	4 19.10	21 36 29.8	10 6.9	70.17	16 15.70
14.0	Di	8 55.04	21.89	19 40 31.36	4 18.45	21 26 22.9	10 31.7	70.08	16 15.64
15.0	Mi	9 16.93	21.23	19 44 49.81	4 17.79	21 15 51.2	10 56.2	69.99	16 15.59
16.0	Do	9 38.16	20.55	19 49 7.60	4 17.10	21 4 55.0	11 20.4	69.90	16 15.52
17.0	Fr	9 58.71	19.86	19 53 24.70	4 16.42	20 53 34.6	11 44.2	69.81	16 15.45
18.0	Sa	+10 18.57	19.15	19 57 41.12	4 15.71	−20 41 50.4	12 7.9	69.71	16 15.38
19.0	St	10 37.72	18.44	20 1 56.83	4 15.00	20 29 42.5	12 31.1	69.61	16 15.29
20.0	Mo	10 56.16	17.71	20 6 11.83	4 14.27	20 17 11.4	12 54.1	69.51	16 15.20
21.0	Di	11 13.87	16.98	20 10 26.10	4 13.53	20 4 17.3	13 16.6	69.41	16 15.11
22.0	Mi	11 30.85	16.22	20 14 39.63	4 12.78	19 51 0.7	13 38.9	69.31	16 15.01
23.0	Do	11 47.07	15.47	20 18 52.41	4 12.02	19 37 21.8	14 0.8	69.20	16 14.90
24.0	Fr	+12 2.54	14.70	20 23 4.43	4 11.25	−19 23 21.0	14 22.3	69.09	16 14.79
25.0	Sa	12 17.24	13.92	20 27 15.68	4 10.48	19 8 58.7	14 43.5	68.98	16 14.68
26.0	St	12 31.16	13.13	20 31 26.16	4 9.69	18 54 15.2	15 4.2	68.87	16 14.56
27.0	Mo	12 44.29	12.35	20 35 35.85	4 8.90	18 39 11.0	15 24.6	68.76	16 14.43
28.0	Di	12 56.64	11.54	20 39 44.75	4 8.10	18 23 46.4	15 44.6	68.65	16 14.30
29.0	Mi	13 8.18	10.74	20 43 52.85	4 7.30	18 8 1.8	16 4.1	68.54	16 14.18
30.0	Do	+13 18.92	9.93	20 48 0.15	4 6.48	−17 51 57.7	16 23.3	68.42	16 14.05
31.0	Fr	13 28.85	9.10	20 52 6.63	4 5.66	17 35 34.4	16 42.0	68.31	16 13.91
Febr. 1.0	Sa	13 37.95	8.29	20 56 12.29	4 4.84	17 18 52.4	17 0.4	68.19	16 13.77
2.0	St	13 46.24	7.46	21 0 17.13	4 4.02	17 1 52.0	17 18.2	68.08	16 13.62
3.0	Mo	13 53.70	6.62	21 4 21.15	4 3.18	16 44 33.8	17 35.6	67.96	16 13.48
4.0	Di	14 0.32	5.80	21 8 24.33	4 2.35	16 26 58.2	17 52.7	67.85	16 13.33
5.0	Mi	+14 6.12	4.96	21 12 26.68	4 1.52	−16 9 5.5	18 9.3	67.73	16 13.18
6.0	Do	14 11.08	4.13	21 16 28.20	4 0.69	15 50 56.2	18 25.5	67.62	16 13.02
7.0	Fr	14 15.21	3.31	21 20 28.89	3 59.86	15 32 30.7	18 41.2	67.51	16 12.87
8.0	Sa	14 18.52	2.50	21 24 28.75	3 59.05	15 13 49.5	18 56.6	67.39	16 12.71
9.0	St	14 21.02	1.68	21 28 27.80	3 58.23	14 54 52.9	19 11.5	67.28	16 12.53
10.0	Mo	14 22.70		21 32 26.03		14 35 41.4		67.17	16 12.37

Tag	Julian. Tag	0h mittlere Zeit Greenwich Sternzeit	Mittleres Äquinoktium 1919.0 Länge		Breite	log R		Untergang in +50° Breite	Aufgang 0h Länge
1919	242	h m s	° ′ ″	′ ″	″			h m	h m
Jan. 0	1959	18 36 24.52	279 0 58.8	61 10.7	−0.04	9.992 6957	39	4 7	19 59
1	1960	18 40 21.08	280 2 9.5	61 10.7	+0.09	9.992 6918	23	4 8	19 59
2	1961	18 44 17.63	281 3 20.2	61 10.8	+0.22	9.992 6895	6	4 9	19 59
3	1962	18 48 14.19	282 4 31.0	61 10.7	+0.33	9.992 6889	11	4 10	19 58
4	1963	18 52 10.75	283 5 41.7	61 10.5	+0.41	9.992 6900	28	4 11	19 58
5	1964	18 56 7.31	284 6 52.2	61 10.2	+0.48	9.992 6928	45	4 12	19 58
6	1965	19 0 3.86	285 8 2.4	61 9.8	+0.50	9.992 6973	64	4 13	19 58
7	1966	19 4 0.42	286 9 12.2	61 9.3	+0.49	9.992 7037	84	4 15	19 57
8	1967	19 7 56.98	287 10 21.5	61 8.9	+0.45	9.992 7121	106	4 16	19 57
9	1968	19 11 53.54	288 11 30.4	61 8.3	+0.39	9.992 7227	127	4 17	19 57
10	1969	19 15 50.09	289 12 38.7	61 7.7	+0.30	9.992 7354	152	4 18	19 56
11	1970	19 19 46.65	290 13 46.4	61 7.2	+0.18	9.992 7506	177	4 20	19 56
12	1971	19 23 43.21	291 14 53.6	61 6.4	+0.04	9.992 7683	204	4 21	19 55
13	1972	19 27 39.77	292 16 0.0	61 5.9	−0.10	9.992 7887	231	4 22	19 54
14	1973	19 31 36.32	293 17 5.9	61 5.3	−0.24	9.992 8118	259	4 24	19 54
15	1974	19 35 32.88	294 18 11.2	61 4.8	−0.35	9.992 8377	287	4 25	19 53
16	1975	19 39 29.44	295 19 16.0	61 4.3	−0.46	9.992 8664	316	4 27	19 52
17	1976	19 43 26.00	296 20 20.3	61 3.9	−0.54	9.992 8980	343	4 28	19 51
18	1977	19 47 22.55	297 21 24.2	61 3.3	−0.60	9.992 9323	371	4 30	19 50
19	1978	19 51 19.11	298 22 27.5	61 2.9	−0.63	9.992 9694	397	4 31	19 49
20	1979	19 55 15.67	299 23 30.4	61 2.5	−0.63	9.993 0091	422	4 33	19 48
21	1980	19 59 12.22	300 24 32.9	61 2.0	−0.61	9.993 0513	445	4 34	19 47
22	1981	20 3 8.78	301 25 34.9	61 1.6	−0.56	9.993 0958	469	4 36	19 46
23	1982	20 7 5.34	302 26 36.5	61 1.0	−0.49	9.993 1427	490	4 38	19 45
24	1983	20 11 1.89	303 27 37.5	61 0.6	−0.39	9.993 1917	511	4 39	19 44
25	1984	20 14 58.45	304 28 38.1	60 59.9	−0.28	9.993 2428	530	4 41	19 43
26	1985	20 18 55.00	305 29 38.0	60 59.4	−0.16	9.993 2958	548	4 42	19 42
27	1986	20 22 51.56	306 30 37.4	60 58.6	−0.03	9.993 3506	566	4 44	19 41
28	1987	20 26 48.12	307 31 36.0	60 57.9	+0.10	9.993 4072	582	4 46	19 39
29	1988	20 30 44.67	308 32 33.9	60 57.1	+0.22	9.993 4654	596	4 47	19 38
30	1989	20 34 41.23	309 33 31.0	60 56.2	+0.33	9.993 5250	610	4 49	19 37
31	1990	20 38 37.78	310 34 27.2	60 55.1	+0.42	9.993 5860	623	4 51	19 35
Febr. 1	1991	20 42 34.34	311 35 22.3	60 54.1	+0.48	9.993 6483	637	4 53	19 34
2	1992	20 46 30.90	312 36 16.4	60 52.9	+0.52	9.993 7120	649	4 54	19 32
3	1993	20 50 27.45	313 37 9.3	60 51.5	+0.52	9.993 7769	663	4 56	19 31
4	1994	20 54 24.01	314 38 0.8	60 50.1	+0.49	9.993 8432	677	4 58	19 29
5	1995	20 58 20.56	315 38 50.9	60 48.7	+0.43	9.993 9109	692	4 59	19 28
6	1996	21 2 17.12	316 39 39.6	60 47.1	+0.35	9.993 9801	708	5 1	19 26
7	1997	21 6 13.67	317 40 26.7	60 45.6	+0.24	9.994 0509	726	5 3	19 25
8	1998	21 10 10.23	318 41 12.3	60 44.0	+0.11	9.994 1235	745	5 4	19 23
9	1999	21 14 6.78	319 41 56.3	60 42.3	−0.02	9.994 1980	765	5 6	19 21
10	2000	21 18 3.34	320 42 38.6		−0.15	9.994 2745		5 8	19 20

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1919		m s	s	h m s	m s	° ' "	' "	s	' "
Febr. 10.0	Mo	+14 22.70	0.88	21 32 26.03	3 57.44	−14 35 41.4	19 26.1	67.17	16 12.37
11.0	Di	14 23.58	0.09	21 36 23.47	3 56.65	14 16 15.3	19 40.2	67.06	16 12.19
12.0	Mi	14 23.67	0.68	21 40 20.12	3 55.87	13 56 35.1	19 54.0	66.95	16 12.01
13.0	Do	14 22.99	1.45	21 44 15.99	3 55.11	13 36 41.1	20 7.3	66.84	16 11.82
14.0	Fr	14 21.54	2.19	21 48 11.10	3 54.36	13 16 33.8	20 20.3	66.73	16 11.64
15.0	Sa	14 19.35	2.93	21 52 5.46	3 53.62	12 56 13.5	20 32.9	66.63	16 11.44
16.0	St	+14 16.42	3.64	21 55 59.08	3 52.91	−12 35 40.6	20 45.0	66.52	16 11.24
17.0	Mo	14 12.78	4.35	21 59 51.99	3 52.21	12 14 55.6	20 56.9	66.42	16 11.04
18.0	Di	14 8.43	5.03	22 3 44.20	3 51.52	11 53 58.7	21 8.2	66.32	16 10.82
19.0	Mi	14 3.40	5.70	22 7 35.72	3 50.85	11 32 50.5	21 19.1	66.22	16 10.61
20.0	Do	13 57.70	6.36	22 11 26.57	3 50.20	11 11 31.4	21 29.8	66.12	16 10.40
21.0	Fr	13 51.34	7.00	22 15 16.77	3 49.55	10 50 1.6	21 39.9	66.03	16 10.17
22.0	Sa	+13 44.34	7.63	22 19 6.32	3 48.93	−10 28 21.7	21 49.6	65.93	16 9.95
23.0	St	13 36.71	8.23	22 22 55.25	3 48.32	10 6 32.1	21 59.0	65.84	16 9.72
24.0	Mo	13 28.48	8.82	22 26 43.57	3 47.73	9 44 33.1	22 8.0	65.75	16 9.49
25.0	Di	13 19.66	9.40	22 30 31.30	3 47.16	9 22 25.1	22 16.4	65.66	16 9.26
26.0	Mi	13 10.26	9.96	22 34 18.46	3 46.59	9 0 8.7	22 24.5	65.58	16 9.02
27.0	Do	13 0.30	10.50	22 38 5.05	3 46.05	8 37 44.2	22 32.3	65.50	16 8.78
28.0	Fr	+12 49.80	11.04	22 41 51.10	3 45.52	− 8 15 11.9	22 39.5	65.42	16 8.54
März 1.0	Sa	12 38.76	11.55	22 45 36.62	3 45.00	7 52 32.4	22 46.4	65.34	16 8.31
2.0	St	12 27.21	12.06	22 49 21.62	3 44.49	7 29 46.0	22 52.7	65.26	16 8.06
3.0	Mo	12 15.15	12.55	22 53 6.11	3 44.00	7 6 53.3	22 58.7	65.19	16 7.82
4.0	Di	12 2.60	13.03	22 56 50.11	3 43.53	6 43 54.6	23 4.3	65.12	16 7.58
5.0	Mi	11 49.57	13.49	23 0 33.64	3 43.06	6 20 50.3	23 9.5	65.05	16 7.33
6.0	Do	+11 36.08	13.93	23 4 16.70	3 42.62	− 5 57 40.8	23 14.2	64.99	16 7.09
7.0	Fr	11 22.15	14.36	23 7 59.32	3 42.19	5 34 26.6	23 18.6	64.93	16 6.85
8.0	Sa	11 7.79	14.77	23 11 41.51	3 41.79	5 11 8.0	23 22.6	64.87	16 6.60
9.0	St	10 53.02	15.17	23 15 23.30	3 41.39	4 47 45.4	23 26.2	64.82	16 6.35
10.0	Mo	10 37.85	15.53	23 19 4.69	3 41.02	4 24 19.2	23 29.4	64.77	16 6.10
11.0	Di	10 22.32	15.87	23 22 45.71	3 40.67	4 0 49.8	23 32.3	64.72	16 5.85
12.0	Mi	+10 6.45	16.20	23 26 26.38	3 40.35	− 3 37 17.5	23 34.8	64.67	16 5.59
13.0	Do	9 50.25	16.51	23 30 6.73	3 40.05	3 13 42.7	23 36.9	64.62	16 5.33
14.0	Fr	9 33.74	16.78	23 33 46.78	3 39.77	2 50 5.8	23 38.8	64.58	16 5.07
15.0	Sa	9 16.96	17.04	23 37 26.55	3 39.52	2 26 27.0	23 40.2	64.54	16 4.81
16.0	St	8 59.92	17.27	23 41 6.07	3 39.28	2 2 46.8	23 41.3	64.51	16 4.54
17.0	Mo	8 42.65	17.47	23 44 45.35	3 39.08	1 39 5.5	23 42.1	64.48	16 4.27
18.0	Di	+ 8 25.18	17.66	23 48 24.43	3 38.90	− 1 15 23.4	23 42.5	64.45	16 4.01
19.0	Mi	8 7.52	17.82	23 52 3.33	3 38.73	0 51 40.9	23 42.6	64.42	16 3.74
20.0	Do	7 49.70	17.95	23 55 42.06	3 38.60	0 27 58.3	23 42.3	64.40	16 3.46
21.0	Fr	7 31.75	18.07	23 59 20.66	3 38.48	− 0 4 16.0	23 41.6	64.38	16 3.18
22.0	Sa	7 13.68	18.16	0 2 59.14	3 38.39	+ 0 19 25.6	23 40.6	64.36	16 2.90
23.0	St	6 55.52		0 6 37.53		0 43 6.2		64.34	16 2.63

Tag	Julian. Tag	0h mittlere Zeit Greenwich: Sternzeit	Mittleres Äquinoktium 1919.0: Länge		Breite	log R		Untergang in +50° Breite	Aufgang 0h Länge
1919	2422	h m s	° ′ ″	′ ″	″			h m	h m
Febr. 10	000	21 18 3.34	320 42 38.6	60 40.9	−0.15	9.994 2745	785	5 8	19 20
11	001	21 21 59.89	321 43 19.5	60 39.2	−0.27	9.994 3530	808	5 10	19 18
12	002	21 25 56.44	322 43 58.7	60 37.7	−0.38	9.994 4338	829	5 11	19 16
13	003	21 29 53.00	323 44 36.4	60 36.0	−0.46	9.994 5167	851	5 13	19 14
14	004	21 33 49.55	324 45 12.4	60 34.7	−0.52	9.994 6018	873	5 15	19 13
15	005	21 37 46.11	325 45 47.1	60 33.2	−0.56	9.994 6891	895	5 17	19 11
16	006	21 41 42.66	326 46 20.3	60 31.9	−0.57	9.994 7786	916	5 18	19 9
17	007	21 45 39.21	327 46 52.2	60 30.4	−0.55	9.994 8702	936	5 20	19 7
18	008	21 49 35.77	328 47 22.6	60 29.0	−0.49	9.994 9638	955	5 22	19 5
19	009	21 53 32.32	329 47 51.6	60 27.7	−0.42	9.995 0593	973	5 24	19 3
20	010	21 57 28.88	330 48 19.3	60 26.3	−0.33	9.995 1566	990	5 25	19 1
21	011	22 1 25.43	331 48 45.6	60 24.8	−0.22	9.995 2556	1005	5 27	19 0
22	012	22 5 21.98	332 49 10.4	60 23.6	−0.11	9.995 3561	1019	5 29	18 58
23	013	22 9 18.54	333 49 34.0	60 22.2	+0.01	9.995 4580	1033	5 30	18 56
24	014	22 13 15.09	334 49 56.2	60 20.7	+0.14	9.995 5613	1044	5 32	18 54
25	015	22 17 11.64	335 50 16.9	60 19.3	+0.26	9.995 6657	1055	5 34	18 52
26	016	22 21 8.20	336 50 36.2	60 17.7	+0.36	9.995 7712	1063	5 35	18 50
27	017	22 25 4.75	337 50 53.9	60 16.3	+0.45	9.995 8775	1070	5 37	18 48
28	018	22 29 1.30	338 51 10.2	60 14.5	+0.52	9.995 9845	1076	5 39	18 46
März 1	019	22 32 57.86	339 51 24.7	60 12.9	+0.57	9.996 0921	1080	5 40	18 44
2	020	22 36 54.41	340 51 37.6	60 11.1	+0.58	9.996 2001	1085	5 42	18 42
3	021	22 40 50.96	341 51 48.7	60 9.1	+0.55	9.996 3086	1089	5 44	18 40
4	022	22 44 47.52	342 51 57.8	60 7.2	+0.49	9.996 4175	1093	5 45	18 37
5	023	22 48 44.07	343 52 5.0	60 5.1	+0.39	9.996 5268	1098	5 47	18 35
6	024	22 52 40.62	344 52 10.1	60 2.9	+0.29	9.996 6366	1104	5 49	18 33
7	025	22 56 37.17	345 52 13.0	60 0.9	+0.17	9.996 7470	1111	5 50	18 31
8	026	23 0 33.73	346 52 13.9	59 58.6	+0.04	9.996 8581	1119	5 52	18 29
9	027	23 4 30.28	347 52 12.5	59 56.3	−0.09	9.996 9700	1127	5 54	18 27
10	028	23 8 26.83	348 52 8.8	59 54.1	−0.21	9.997 0827	1138	5 55	18 25
11	029	23 12 23.38	349 52 2.9	59 52.0	−0.32	9.997 1965	1148	5 57	18 23
12	030	23 16 19.94	350 51 54.9	59 49.8	−0.42	9.997 3113	1160	5 58	18 21
13	031	23 20 16.49	351 51 44.7	59 47.6	−0.49	9.997 4273	1172	6 0	18 18
14	032	23 24 13.04	352 51 32.3	59 45.6	−0.53	9.997 5445	1183	6 2	18 16
15	033	23 28 9.59	353 51 17.9	59 43.5	−0.53	9.997 6628	1196	6 3	18 14
16	034	23 32 6.15	354 51 1.4	59 41.6	−0.51	9.997 7824	1207	6 5	18 12
17	035	23 36 2.70	355 50 43.0	59 39.7	−0.46	9.997 9031	1218	6 6	18 10
18	036	23 39 59.25	356 50 22.7	59 37.7	−0.40	9.998 0249	1228	6 8	18 8
19	037	23 43 55.80	357 50 0.4	59 35.8	−0.30	9.998 1477	1237	6 10	18 5
20	038	23 47 52.36	358 49 36.2	59 34.0	−0.19	9.998 2714	1246	6 11	18 3
21	039	23 51 48.91	359 49 10.2	59 32.1	−0.07	9.998 3960	1253	6 13	18 1
22	040	23 55 45.46	0 48 42.3	59 30.4	+0.05	9.998 5213	1260	6 14	17 59
23	041	23 59 42.01	1 48 12.7		+0.17	9.998 6473		6 16	17 57

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1919		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
März 23.0	St	+6 55.52	18.24	0 6 37.53	3 38.32	+ 0 43 6.2	23 39.2	64.34	16 2.63
24.0	Mo	6 37.28	18.28	0 10 15.85	3 38.27	1 6 45.4	23 37.5	64.33	16 2.35
25.0	Di	6 19.00	18.31	0 13 54.12	3 38.24	1 30 22.9	23 35.4	64.32	16 2.06
26.0	Mi	6 0.69	18.32	0 17 32.36	3 38.23	1 53 58.3	23 33.0	64.32	16 1.78
27.0	Do	5 42.37	18.31	0 21 10.59	3 38.25	2 17 31.3	23 30.2	64.32	16 1.50
28.0	Fr	5 24.06	18.28	0 24 48.84	3 38.27	2 41 1.5	23 27.0	64.32	16 1.22
29.0	Sa	+5 5.78	18.23	0 28 27.11	3 38.32	+ 3 4 28.5	23 23.5	64.32	16 0.94
30.0	St	4 47.55	18.17	0 32 5.43	3 38.38	3 27 52.0	23 19.5	64.33	16 0.66
31.0	Mo	4 29.38	18.09	0 35 43.81	3 38.46	3 51 11.5	23 15.2	64.34	16 0.38
April 1.0	Di	4 11.29	18.01	0 39 22.27	3 38.55	4 14 26.7	23 10.6	64.35	16 0.11
2.0	Mi	3 53.28	17.90	0 43 0.82	3 38.65	4 37 37.3	23 5.4	64.36	15 59.83
3.0	Do	3 35.38	17.78	0 46 39.47	3 38.77	5 0 42.7	23 0.1	64.38	15 59.56
4.0	Fr	+3 17.60	17.64	0 50 18.24	3 38.91	+ 5 23 42.8	22 54.3	64.40	15 59.29
5.0	Sa	2 59.96	17.50	0 53 57.15	3 39.06	5 46 37.1	22 48.1	64.42	15 59.02
6.0	St	2 42.46	17.32	0 57 36.21	3 39.22	6 9 25.2	22 41.7	64.45	15 58.75
7.0	Mo	2 25.14	17.14	1 1 15.43	3 39.42	6 32 6.9	22 34.8	64.48	15 58.49
8.0	Di	2 8.00	16.94	1 4 54.85	3 39.62	6 54 41.7	22 27.8	64.51	15 58.22
9.0	Mi	1 51.06	16.71	1 8 34.47	3 39.84	7 17 9.5	22 20.2	64.54	15 57.94
10.0	Do	+1 34.35	16.47	1 12 14.31	3 40.08	+ 7 39 29.7	22 12.5	64.58	15 57.68
11.0	Fr	1 17.88	16.20	1 15 54.39	3 40.35	8 1 42.2	22 4.3	64.62	15 57.41
12.0	Sa	1 1.68	15.92	1 19 34.74	3 40.63	8 23 46.5	21 56.0	64.66	15 57.14
13.0	St	0 45.76	15.62	1 23 15.37	3 40.93	8 45 42.5	21 47.1	64.71	15 56.88
14.0	Mo	0 30.14	15.30	1 26 56.30	3 41.26	9 7 29.6	21 38.1	64.75	15 56.61
15.0	Di	+0 14.84	14.96	1 30 37.56	3 41.59	9 29 7.7	21 28.7	64.80	15 56.34
16.0	Mi	−0 0.12	14.60	1 34 19.15	3 41.96	+ 9 50 36.4	21 19.0	64.85	15 56.08
17.0	Do	0 14.72	14.22	1 38 1.11	3 42.33	10 11 55.4	21 8.9	64.91	15 55.81
18.0	Fr	0 28.94	13.83	1 41 43.44	3 42.72	10 33 4.3	20 58.6	64.97	15 55.54
19.0	Sa	0 42.77	13.42	1 45 26.16	3 43.14	10 54 2.9	20 47.9	65.03	15 55.28
20.0	St	0 56.19	12.99	1 49 9.30	3 43.57	11 14 50.8	20 36.9	65.09	15 55.01
21.0	Mo	1 9.18	12.54	1 52 52.87	3 44.00	11 35 27.7	20 25.5	65.15	15 54.75
22.0	Di	−1 21.72	12.09	1 56 36.87	3 44.47	+11 55 53.2	20 13.8	65.21	15 54.48
23.0	Mi	1 33.81	11.62	2 0 21.34	3 44.94	12 16 7.0	20 1.8	65.27	15 54.22
24.0	Do	1 45.43	11.13	2 4 6.28	3 45.42	12 36 8.8	19 49.5	65.34	15 53.96
25.0	Fr	1 56.56	10.64	2 7 51.70	3 45.91	12 55 58.3	19 36.8	65.41	15 53.70
26.0	Sa	2 7.20	10.13	2 11 37.61	3 46.42	13 15 35.1	19 23.8	65.48	15 53.44
27.0	St	2 17.33	9.63	2 15 24.03	3 46.93	13 34 58.9	19 10.5	65.55	15 53.19
28.0	Mo	−2 26.96	9.11	2 19 10.96	3 47.45	+13 54 9.4	18 56.7	65.62	15 52.94
29.0	Di	2 36.07	8.59	2 22 58.41	3 47.96	14 13 6.1	18 42.7	65.70	15 52.70
30.0	Mi	2 44.66	8.06	2 26 46.37	3 48.49	14 31 48.8	18 28.3	65.77	15 52.46
Mai 1.0	Do	2 52.72	7.54	2 30 34.86	3 49.02	14 50 17.1	18 13.6	65.85	15 52.22
2.0	Fr	3 0.26	7.02	2 34 23.88	3 49.54	15 8 30.7	17 58.5	65.93	15 51.98
3.0	Sa	3 7.28		2 38 13.42		15 26 29.2		66.01	15 51.75

Tag	Julian. Tag	0h mittlere Zeit Greenwich: Sternzeit	Mittleres Äquinoktium 1919.0: Länge		Breite	log R		Untergang in +50° Breite	Aufgang 0h Länge
1919	2422	h m s	° ′ ″	′ ″	″			h m	h m
März 23	041	23 59 42.01	1 48 12.7	59 28.6	+0.17	9.998 6473	1264	6 16	17 57
24	042	0 3 38.56	2 47 41.3	59 26.8	+0.28	9.998 7737	1267	6 18	17 54
25	043	0 7 35.12	3 47 8.1	59 25.2	+0.39	9.998 9004	1270	6 19	17 52
26	044	0 11 31.67	4 46 33.3	59 23.3	+0.49	9.999 0274	1269	6 21	17 50
27	045	0 15 28.22	5 45 56.6	59 21.6	+0.56	9.999 1543	1269	6 22	17 48
28	046	0 19 24.77	6 45 18.2	59 19.7	+0.60	9.999 2812	1265	6 24	17 46
29	047	0 23 21.33	7 44 37.9	59 17.9	+0.60	9.999 4077	1260	6 26	17 44
30	048	0 27 17.88	8 43 55.8	59 15.9	+0.57	9.999 5337	1255	6 27	17 41
31	049	0 31 14.43	9 43 11.7	59 13.9	+0.52	9.999 6592	1248	6 29	17 39
April 1	050	0 35 10.98	10 42 25.6	59 11.8	+0.44	9.999 7840	1241	6 30	17 37
2	051	0 39 7.54	11 41 37.4	59 9.6	+0.33	9.999 9081	1235	6 32	17 35
3	052	0 43 4.09	12 40 47.0	59 7.4	+0.21	0.000 0316	1228	6 33	17 33
4	053	0 47 0.64	13 39 54.4	59 5.1	+0.08	0.000 1544	1223	6 35	17 31
5	054	0 50 57.19	14 38 59.5	59 2.8	−0.05	0.000 2767	1218	6 36	17 28
6	055	0 54 53.75	15 38 2.3	59 0.5	−0.19	0.000 3985	1215	6 38	17 26
7	056	0 58 50.30	16 37 2.8	58 58.1	−0.31	0.000 5200	1213	6 40	17 24
8	057	1 2 46.85	17 36 0.9	58 55.8	−0.41	0.000 6413	1212	6 41	17 22
9	058	1 6 43.40	18 34 56.7	58 53.6	−0.48	0.000 7625	1211	6 43	17 20
10	059	1 10 39.96	19 33 50.3	58 51.3	−0.53	0.000 8836	1211	6 44	17 18
11	060	1 14 36.51	20 32 41.6	58 49.1	−0.54	0.001 0047	1211	6 46	17 16
12	061	1 18 33.06	21 31 30.7	58 47.0	−0.53	0.001 1258	1212	6 47	17 14
13	062	1 22 29.62	22 30 17.7	58 45.0	−0.48	0.001 2470	1213	6 49	17 11
14	063	1 26 26.17	23 29 2.7	58 42.9	−0.41	0.001 3683	1214	6 50	17 9
15	064	1 30 22.72	24 27 45.6	58 40.9	−0.32	0.001 4897	1213	6 52	17 7
16	065	1 34 19.28	25 26 26.5	58 39.1	−0.22	0.001 6110	1213	6 54	17 5
17	066	1 38 15.83	26 25 5.6	58 37.1	−0.10	0.001 7323	1213	6 55	17 3
18	067	1 42 12.38	27 23 42.7	58 35.5	+0.02	0.001 8536	1211	6 57	17 1
19	068	1 46 8.94	28 22 18.2	58 33.6	+0.15	0.001 9747	1208	6 58	16 59
20	069	1 50 5.49	29 20 51.8	58 31.9	+0.28	0.002 0955	1204	7 0	16 57
21	070	1 54 2.04	30 19 23.7	58 30.3	+0.40	0.002 2159	1200	7 1	16 55
22	071	1 57 58.60	31 17 54.0	58 28.7	+0.49	0.002 3359	1193	7 3	16 53
23	072	2 1 55.15	32 16 22.7	58 27.2	+0.56	0.002 4552	1186	7 4	16 51
24	073	2 5 51.70	33 14 49.9	58 25.5	+0.60	0.002 5738	1176	7 6	16 49
25	074	2 9 48.26	34 13 15.4	58 24.0	+0.61	0.002 6914	1165	7 8	16 48
26	075	2 13 44.81	35 11 39.4	58 22.4	+0.59	0.002 8079	1152	7 9	16 46
27	076	2 17 41.37	36 10 1.8	58 20.8	+0.55	0.002 9231	1138	7 11	16 44
28	077	2 21 37.92	37 8 22.6	58 19.1	+0.48	0.003 0369	1122	7 12	16 42
29	078	2 25 34.47	38 6 41.7	58 17.4	+0.37	0.003 1491	1105	7 14	16 40
30	079	2 29 31.03	39 4 59.1	58 15.6	+0.25	0.003 2596	1089	7 15	16 38
Mai 1	080	2 33 27.58	40 3 14.7	58 13.8	+0.12	0.003 3685	1071	7 17	16 36
2	081	2 37 24.14	41 1 28.5	58 11.7	−0.02	0.003 4756	1056	7 19	16 35
3	082	2 41 20.69	41 59 40.2		−0.17	0.003 5812		7 20	16 33

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1919		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Mai 3.0	Sa	−3 7.28	6.48	2 38 13.42	3 50.07	+15 26 29.2	17 43.2	66.01	15 51.75
4.0	St	3 13.76	5.94	2 42 3.49	3 50.61	15 44 12.4	17 27.5	66.09	15 51.52
5.0	Mo	3 19.70	5.41	2 45 54.10	3 51.14	16 1 39.9	17 11.5	66.17	15 51.30
6.0	Di	3 25.11	4.87	2 49 45.24	3 51.69	16 18 51.4	16 55.2	66.25	15 51.07
7.0	Mi	3 29.98	4.32	2 53 36.93	3 52.23	16 35 46.6	16 38.6	66.33	15 50.85
8.0	Do	3 34.30	3.77	2 57 29.16	3 52.79	16 52 25.2	16 21.7	66.41	15 50.64
9.0	Fr	−3 38.07	3.22	3 1 21.95	3 53.34	+17 8 46.9	16 4.6	66.49	15 50.42
10.0	Sa	3 41.29	2.66	3 5 15.29	3 53.90	17 24 51.5	15 47.1	66.57	15 50.22
11.0	St	3 43.95	2.09	3 9 9.19	3 54.46	17 40 38.6	15 29.3	66.65	15 50.01
12.0	Mo	3 46.04	1.52	3 13 3.65	3 55.03	17 56 7.9	15 11.3	66.73	15 49.80
13.0	Di	3 47.56	0.96	3 16 58.68	3 55.60	18 11 19.2	14 53.0	66.82	15 49.59
14.0	Mi	3 48.52	0.39	3 20 54.28	3 56.17	18 26 12.2	14 34.4	66.90	15 49.39
15.0	Do	−3 48.91	0.18	3 24 50.45	3 56.74	+18 40 46.6	14 15.5	66.98	15 49.18
16.0	Fr	3 48.73	0.76	3 28 47.19	3 57.31	18 55 2.1	13 56.4	67.06	15 48.98
17.0	Sa	3 47.97	1.33	3 32 44.50	3 57.88	19 8 58.5	13 37.0	67.14	15 48.79
18.0	St	3 46.64	1.90	3 36 42.38	3 58.46	19 22 35.5	13 17.4	67.22	15 48.60
19.0	Mo	3 44.74	2.47	3 40 40.84	3 59.03	19 35 52.9	12 57.4	67.30	15 48.40
20.0	Di	3 42.27	3.04	3 44 39.87	3 59.59	19 48 50.3	12 37.2	67.38	15 48.21
21.0	Mi	−3 39.23	3.60	3 48 39.46	4 0.15	+20 1 27.5	12 16.8	67.46	15 48.02
22.0	Do	3 35.63	4.15	3 52 39.61	4 0.71	20 13 44.3	11 56.1	67.53	15 47.83
23.0	Fr	3 31.48	4.70	3 56 40.32	4 1.25	20 25 40.4	11 35.1	67.61	15 47.65
24.0	Sa	3 26.78	5.24	4 0 41.57	4 1.80	20 37 15.5	11 13.9	67.68	15 47.47
25.0	St	3 21.54	5.76	4 4 43.37	4 2.32	20 48 29.4	10 52.5	67.75	15 47.30
26.0	Mo	3 15.78	6.27	4 8 45.69	4 2.83	20 59 21.9	10 30.9	67.82	15 47.13
27.0	Di	−3 9.51	6.77	4 12 48.52	4 3.32	+21 9 52.8	10 8.9	67.89	15 46.97
28.0	Mi	3 2.74	7.24	4 16 51.84	4 3.80	21 20 1.7	9 46.8	67.96	15 46.80
29.0	Do	2 55.50	7.71	4 20 55.64	4 4.26	21 29 48.5	9 24.5	68.02	15 46.65
30.0	Fr	2 47.79	8.14	4 24 59.90	4 4.70	21 39 13.0	9 2.0	68.09	15 46.50
31.0	Sa	2 39.65	8.56	4 29 4.60	4 5.12	21 48 15.0	8 39.2	68.15	15 46.36
Juni 1.0	St	2 31.09	8.96	4 33 9.72	4 5.52	21 56 54.2	8 16.3	68.21	15 46.22
2.0	Mo	−2 22.13	9.34	4 37 15.24	4 5.89	+22 5 10.5	7 53.2	68.26	15 46.08
3.0	Di	2 12.79	9.70	4 41 21.13	4 6.26	22 13 3.7	7 30.0	68.31	15 45.95
4.0	Mi	2 3.09	10.05	4 45 27.39	4 6.60	22 20 33.7	7 6.5	68.36	15 45.83
5.0	Do	1 53.04	10.37	4 49 33.99	4 6.93	22 27 40.2	6 43.0	68.41	15 45.71
6.0	Fr	1 42.67	10.67	4 53 40.92	4 7.23	22 34 23.2	6 19.3	68.46	15 45.59
7.0	Sa	1 32.00	10.97	4 57 48.15	4 7.53	22 40 42.5	5 55.4	68.50	15 45.47
8.0	St	−1 21.03	11.24	5 1 55.68	4 7.79	+22 46 37.9	5 31.5	68.54	15 45.36
9.0	Mo	1 9.79	11.49	5 6 3.47	4 8.05	22 52 9.4	5 7.4	68.58	15 45.26
10.0	Di	0 58.30	11.73	5 10 11.52	4 8.29	22 57 16.8	4 43.1	68.62	15 45.16
11.0	Mi	0 46.57	11.94	5 14 19.81	4 8.50	23 1 59.9	4 18.9	68.65	15 45.06
12.0	Do	0 34.63	12.14	5 18 28.31	4 8.70	23 6 18.8	3 54.5	68.68	15 44.96
13.0	Fr	0 22.49		5 22 37.01		23 10 13.3		68.71	15 44.87

Tag		Julian. Tag	0h mittlere Zeit Greenwich: Sternzeit	Mittleres Äquinoktium 1919.0: Länge	Diff.	Breite	log R	Diff.	Untergang in +50° Breite	Aufgang 0h Länge
1919		2422	h m s	° ′ ″	′ ″	″			h m	h m
Mai	3	082	2 41 20.69	41 59 40.2	58 9.9	−0.17	0.003 5812	1040	7 20	16 33
	4	083	2 45 17.25	42 57 50.1	58 8.0	−0.29	0.003 6852	1025	7 22	16 31
	5	084	2 49 13.80	43 55 58.1	58 6.0	−0.39	0.003 7877	1012	7 23	16 30
	6	085	2 53 10.36	44 54 4.1	58 3.9	−0.48	0.003 8889	1000	7 25	16 28
	7	086	2 57 6.91	45 52 8.0	58 2.1	−0.53	0.003 9889	988	7 26	16 26
	8	087	3 1 3.47	46 50 10.1	58 0.3	−0.55	0.004 0877	978	7 28	16 25
	9	088	3 5 0.02	47 48 10.4	57 58.3	−0.54	0.004 1855	968	7 29	16 23
	10	089	3 8 56.58	48 46 8.7	57 56.6	−0.51	0.004 2823	959	7 31	16 21
	11	090	3 12 53.13	49 44 5.3	57 54.9	−0.44	0.004 3782	950	7 32	16 20
	12	091	3 16 49.69	50 42 0.2	57 53.2	−0.35	0.004 4732	942	7 34	16 18
	13	092	3 20 46.24	51 39 53.4	57 51.7	−0.24	0.004 5674	932	7 35	16 17
	14	093	3 24 42.80	52 37 45.1	57 50.1	−0.13	0.004 6606	924	7 36	16 16
	15	094	3 28 39.35	53 35 35.2	57 48.7	0.00	0.004 7530	915	7 38	16 14
	16	095	3 32 35.91	54 33 23.9	57 47.2	+0.13	0.004 8445	906	7 39	16 13
	17	096	3 36 32.47	55 31 11.1	57 46.1	+0.25	0.004 9351	897	7 41	16 11
	18	097	3 40 29.02	56 28 57.2	57 44.8	+0.36	0.005 0248	886	7 42	16 10
	19	098	3 44 25.58	57 26 42.0	57 43.6	+0.47	0.005 1134	874	7 43	16 9
	20	099	3 48 22.13	58 24 25.6	57 42.6	+0.56	0.005 2008	862	7 45	16 8
	21	100	3 52 18.69	59 22 8.2	57 41.4	+0.62	0.005 2870	849	7 46	16 6
	22	101	3 56 15.24	60 19 49.6	57 40.5	+0.63	0.005 3719	833	7 47	16 5
	23	102	4 0 11.80	61 17 30.1	57 39.5	+0.62	0.005 4552	817	7 49	16 4
	24	103	4 4 8.36	62 15 9.6	57 38.6	+0.58	0.005 5369	798	7 50	16 3
	25	104	4 8 4.91	63 12 48.2	57 37.5	+0.51	0.005 6167	778	7 51	16 2
	26	105	4 12 1.47	64 10 25.7	57 36.6	+0.41	0.005 6945	757	7 52	16 1
	27	106	4 15 58.03	65 8 2.3	57 35.7	+0.29	0.005 7702	734	7 54	16 0
	28	107	4 19 54.58	66 5 38.0	57 34.6	+0.16	0.005 8436	710	7 55	15 59
	29	108	4 23 51.14	67 3 12.6	57 33.5	+0.03	0.005 9146	687	7 56	15 58
	30	109	4 27 47.70	68 0 46.1	57 32.3	−0.12	0.005 9833	662	7 57	15 57
	31	110	4 31 44.25	68 58 18.4	57 31.1	−0.26	0.006 0495	639	7 58	15 56
Juni	1	111	4 35 40.81	69 55 49.5	57 29.9	−0.37	0.006 1134	617	7 59	15 56
	2	112	4 39 37.37	70 53 19.4	57 28.6	−0.45	0.006 1751	595	8 0	15 55
	3	113	4 43 33.92	71 50 48.0	57 27.5	−0.51	0.006 2346	575	8 1	15 54
	4	114	4 47 30.48	72 48 15.5	57 26.2	−0.55	0.006 2921	555	8 2	15 54
	5	115	4 51 27.04	73 45 41.7	57 24.9	−0.55	0.006 3476	538	8 3	15 53
	6	116	4 55 23.59	74 43 6.6	57 23.9	−0.52	0.006 4014	520	8 4	15 53
	7	117	4 59 20.15	75 40 30.5	57 22.8	−0.46	0.006 4534	504	8 5	15 52
	8	118	5 3 16.71	76 37 53.3	57 21.7	−0.38	0.006 5038	488	8 6	15 52
	9	119	5 7 13.26	77 35 15.0	57 20.8	−0.27	0.006 5526	473	8 7	15 51
	10	120	5 11 9.82	78 32 35.8	57 19.8	−0.16	0.006 5999	458	8 7	15 51
	11	121	5 15 6.38	79 29 55.6	57 19.0	−0.04	0.006 6457	444	8 8	15 51
	12	122	5 19 2.94	80 27 14.6	57 18.3	+0.09	0.006 6901	431	8 9	15 50
	13	123	5 22 59.49	81 24 32.9		+0.22	0.006 7332		8 9	15 50

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1919		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juni 13.0	Fr	−0 22.49	12.33	5 22 37.01	4 8.88	+23 10 13.3	3 30.1	68.71	15 44.87
14.0	Sa	−0 10.16	12.48	5 26 45.89	4 9.04	23 13 43.4	3 5.5	68.73	15 44.78
15.0	St	+0 2.32	12.62	5 30 54.93	4 9.18	23 16 48.9	2 40.8	68.75	15 44.69
16.0	Mo	0 14.94	12.75	5 35 4.11	4 9.31	23 19 29.7	2 16.2	68.77	15 44.60
17.0	Di	0 27.69	12.86	5 39 13.42	4 9.41	23 21 45.9	1 51.4	68.78	15 44.52
18.0	Mi	0 40.55	12.94	5 43 22.83	4 9.49	23 23 37.3	1 26.7	68.79	15 44.44
19.0	Do	+0 53.49	13.00	5 47 32.32	4 9.56	+23 25 4.0	1 1.8	68.80	15 44.37
20.0	Fr	1 6.49	13.04	5 51 41.88	4 9.60	23 26 5.8	0 37.1	68.81	15 44.30
21.0	Sa	1 19.53	13.06	5 55 51.48	4 9.62	23 26 42.9	0 12.2	68.81	15 44.24
22.0	St	1 32.59	13.05	6 0 1.10	4 9.61	23 26 55.1	0 12.6	68.81	15 44.17
23.0	Mo	1 45.64	13.02	6 4 10.71	4 9.57	23 26 42.5	0 37.5	68.80	15 44.12
24.0	Di	1 58.66	12.96	6 8 20.28	4 9.52	23 26 5.0	1 2.3	68.79	15 44.06
25.0	Mi	+2 11.62	12.87	6 12 29.80	4 9.43	+23 25 2.7	1 27.0	68.78	15 44.02
26.0	Do	2 24.49	12.76	6 16 39.23	4 9.32	23 23 35.7	1 51.7	68.77	15 43.98
27.0	Fr	2 37.25	12.62	6 20 48.55	4 9.17	23 21 44.0	2 16.3	68.75	15 43.94
28.0	Sa	2 49.87	12.44	6 24 57.72	4 9.00	23 19 27.7	2 41.0	68.73	15 43.91
29.0	St	3 2.31	12.24	6 29 6.72	4 8.80	23 16 46.7	3 5.4	68.70	15 43.89
30.0	Mo	3 14.55	12.02	6 33 15.52	4 8.57	23 13 41.3	3 29.8	68.67	15 43.87
Juli 1.0	Di	+3 26.57	11.76	6 37 24.09	4 8.32	+23 10 11.5	3 54.2	68.64	15 43.86
2.0	Mi	3 38.33	11.49	6 41 32.41	4 8.05	23 6 17.3	4 18.3	68.61	15 43.85
3.0	Do	3 49.82	11.19	6 45 40.46	4 7.75	23 1 59.0	4 42.4	68.57	15 43.85
4.0	Fr	4 1.01	10.87	6 49 48.21	4 7.43	22 57 16.6	5 6.4	68.53	15 43.85
5.0	Sa	4 11.88	10.53	6 53 55.64	4 7.08	22 52 10.2	5 30.2	68.49	15 43.86
6.0	St	4 22.41	10.18	6 58 2.72	4 6.73	22 46 40.0	5 53.9	68.44	15 43.87
7.0	Mo	+4 32.59	9.80	7 2 9.45	4 6.36	+22 40 46.1	6 17.5	68.39	15 43.88
8.0	Di	4 42.39	9.40	7 6 15.81	4 5.97	22 34 28.6	6 40.9	68.34	15 43.90
9.0	Mi	4 51.79	9.00	7 10 21.78	4 5.56	22 27 47.7	7 4.2	68.28	15 43.93
10.0	Do	5 0.79	8.58	7 14 27.34	4 5.13	22 20 43.5	7 27.3	68.22	15 43.96
11.0	Fr	5 9.37	8.15	7 18 32.47	4 4.70	22 13 16.2	7 50.2	68.16	15 43.99
12.0	Sa	5 17.52	7.69	7 22 37.17	4 4.25	22 5 26.0	8 12.9	68.10	15 44.02
13.0	St	+5 25.21	7.23	7 26 41.42	4 3.79	+21 57 13.1	8 35.6	68.04	15 44.06
14.0	Mo	5 32.44	6.76	7 30 45.21	4 3.32	21 48 37.5	8 57.9	67.97	15 44.10
15.0	Di	5 39.20	6.29	7 34 48.53	4 2.84	21 39 39.6	9 20.2	67.91	15 44.14
16.0	Mi	5 45.49	5.79	7 38 51.37	4 2.35	21 30 19.4	9 42.2	67.84	15 44.19
17.0	Do	5 51.28	5.29	7 42 53.72	4 1.85	21 20 37.2	10 4.0	67.76	15 44.24
18.0	Fr	5 56.57	4.79	7 46 55.57	4 1.34	21 10 33.2	10 25.6	67.69	15 44.29
19.0	Sa	+6 1.36	4.27	7 50 56.91	4 0.82	+21 0 7.6	10 47.0	67.62	15 44.35
20.0	St	6 5.63	3.74	7 54 57.73	4 0.30	20 49 20.6	11 8.1	67.54	15 44.41
21.0	Mo	6 9.37	3.21	7 58 58.03	3 59.76	20 38 12.5	11 29.1	67.46	15 44.47
22.0	Di	6 12.58	2.66	8 2 57.79	3 59.22	20 26 43.4	11 49.7	67.38	15 44.54
23.0	Mi	6 15.24	2.10	8 6 57.01	3 58.66	20 14 53.7	12 10.1	67.30	15 44.62
24.0	Do	6 17.34		8 10 55.67		20 2 43.6		67.22	15 44.70

Tag	Julian. Tag	Sternzeit	Länge (Mittleres Äquinoktium 1919.0)	Diff.	Breite	log R	Diff.	Untergang in +50° Breite 0h Länge	Aufgang in +50° Breite 0h Länge
1919	2422	h m s	° ′ ″	′ ″	″			h m	h m
Juni 13	123	5 22 59.49	81 24 32.9	57 17.5	+0.22	0.006 7332	416	8 9	15 50
14	124	5 26 56.05	82 21 50.4	57 17.0	+0.35	0.006 7748	402	8 10	15 50
15	125	5 30 52.61	83 19 7.4	57 16.5	+0.46	0.006 8150	388	8 10	15 50
16	126	5 34 49.17	84 16 23.9	57 16.0	+0.55	0.006 8538	374	8 11	15 50
17	127	5 38 45.72	85 13 39.9	57 15.6	+0.60	0.006 8912	358	8 11	15 50
18	128	5 42 42.28	86 10 55.5	57 15.4	+0.63	0.006 9270	341	8 12	15 50
19	129	5 46 38.84	87 8 10.9	57 15.3	+0.64	0.006 9611	324	8 12	15 50
20	130	5 50 35.40	88 5 26.2	57 15.0	+0.61	0.006 9935	305	8 12	15 50
21	131	5 54 31.95	89 2 41.2	57 14.9	+0.55	0.007 0240	285	8 13	15 50
22	132	5 58 28.51	89 59 56.1	57 14.9	+0.47	0.007 0525	263	8 13	15 50
23	133	6 2 25.07	90 57 11.0	57 14.7	+0.36	0.007 0788	240	8 13	15 51
24	134	6 6 21.63	91 54 25.7	57 14.6	+0.23	0.007 1028	214	8 13	15 51
25	135	6 10 18.18	92 51 40.3	57 14.6	+0.10	0.007 1242	189	8 13	15 51
26	136	6 14 14.74	93 48 54.9	57 14.3	−0.04	0.007 1431	163	8 13	15 52
27	137	6 18 11.30	94 46 9.2	57 14.2	−0.18	0.007 1594	135	8 13	15 52
28	138	6 22 7.86	95 43 23.4	57 13.9	−0.30	0.007 1729	109	8 13	15 53
29	139	6 26 4.41	96 40 37.3	57 13.7	−0.40	0.007 1838	82	8 13	15 53
30	140	6 30 0.97	97 37 51.0	57 13.3	−0.47	0.007 1920	57	8 13	15 54
Juli 1	141	6 33 57.53	98 35 4.3	57 13.0	−0.51	0.007 1977	32	8 13	15 54
2	142	6 37 54.08	99 32 17.3	57 12.8	−0.53	0.007 2009	9	8 13	15 55
3	143	6 41 50.64	100 29 30.1	57 12.4	−0.51	0.007 2018	13	8 12	15 56
4	144	6 45 47.20	101 26 42.5	57 12.1	−0.46	0.007 2005	35	8 12	15 57
5	145	6 49 43.76	102 23 54.6	57 12.0	−0.39	0.007 1970	54	8 11	15 57
6	146	6 53 40.31	103 21 6.6	57 11.7	−0.30	0.007 1916	73	8 11	15 58
7	147	6 57 36.87	104 18 18.3	57 11.6	−0.19	0.007 1843	91	8 10	15 59
8	148	7 1 33.43	105 15 29.9	57 11.4	−0.07	0.007 1752	108	8 10	16 0
9	149	7 5 29.98	106 12 41.3	57 11.5	+0.05	0.007 1644	125	8 9	16 1
10	150	7 9 26.54	107 9 52.8	57 11.5	+0.17	0.007 1519	141	8 9	16 2
11	151	7 13 23.10	108 7 4.3	57 11.7	+0.29	0.007 1378	156	8 8	16 3
12	152	7 17 19.65	109 4 16.0	57 11.8	+0.42	0.007 1222	170	8 7	16 4
13	153	7 21 16.21	110 1 27.8	57 12.2	+0.52	0.007 1052	185	8 6	16 5
14	154	7 25 12.77	110 58 40.0	57 12.5	+0.58	0.007 0867	199	8 6	16 6
15	155	7 29 9.32	111 55 52.5	57 13.1	+0.62	0.007 0668	214	8 5	16 7
16	156	7 33 5.88	112 53 5.6	57 13.5	+0.63	0.007 0454	230	8 4	16 8
17	157	7 37 2.44	113 50 19.1	57 14.2	+0.61	0.007 0224	246	8 3	16 9
18	158	7 40 58.99	114 47 33.3	57 15.0	+0.56	0.006 9978	263	8 2	16 10
19	159	7 44 55.55	115 44 48.3	57 15.7	+0.48	0.006 9715	281	8 1	16 11
20	160	7 48 52.11	116 42 4.0	57 16.6	+0.38	0.006 9434	301	8 0	16 13
21	161	7 52 48.66	117 39 20.6	57 17.3	+0.26	0.006 9133	323	7 59	16 14
22	162	7 56 45.22	118 36 37.9	57 18.3	+0.13	0.006 8810	345	7 58	16 15
23	163	8 0 41.78	119 33 56.2	57 19.0	−0.01	0.006 8465	368	7 56	16 16
24	164	8 4 38.33	120 31 15.2		−0.15	0.006 8097		7 55	16 18

Sonne 1919

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1919		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juli 24.0	Do	+6 17.34	1.53	8 10 55.67	3 58.09	+20 2 43.6	12 30.2	67.22	15 44.70
25.0	Fr	6 18.87	0.96	8 14 53.76	3 57.51	19 50 13.4	12 50.1	67.14	15 44.79
26.0	Sa	6 19.83	0.37	8 18 51.27	3 56.93	19 37 23.3	13 9.6	67.06	15 44.88
27.0	St	6 20.20	0.22	8 22 48.20	3 56.33	19 24 13.7	13 28.9	66.97	15 44.97
28.0	Mo	6 19.98	0.84	8 26 44.53	3 55.73	19 10 44.8	13 47.8	66.89	15 45.08
29.0	Di	6 19.14	1.44	8 30 40.26	3 55.11	18 56 57.0	14 6.6	66.80	15 45.19
30.0	Mi	+6 17.70	2.06	8 34 35.37	3 54.49	+18 42 50.4	14 25.0	66.71	15 45.29
31.0	Do	6 15.64	2.68	8 38 29.86	3 53.88	18 28 25.4	14 43.1	66.63	15 45.41
Aug. 1.0	Fr	6 12.96	3.30	8 42 23.74	3 53.25	18 13 42.3	15 0.9	66.54	15 45.53
2.0	Sa	6 9.66	3.93	8 46 16.99	3 52.63	17 58 41.4	15 18.4	66.45	15 45.66
3.0	St	6 5.73	4.55	8 50 9.62	3 52.01	17 43 23.0	15 35.7	66.37	15 45.80
4.0	Mo	6 1.18	5.17	8 54 1.63	3 51.38	17 27 47.3	15 52.6	66.28	15 45.93
5.0	Di	+5 56.01	5.78	8 57 53.01	3 50.77	+17 11 54.7	16 9.3	66.19	15 46.07
6.0	Mi	5 50.23	6.40	9 1 43.78	3 50.16	16 55 45.4	16 25.7	66.11	15 46.22
7.0	Do	5 43.83	7.00	9 5 33.94	3 49.55	16 39 19.7	16 41.7	66.02	15 46.36
8.0	Fr	5 36.83	7.60	9 9 23.49	3 48.95	16 22 38.0	16 57.5	65.93	15 46.51
9.0	Sa	5 29.23	8.20	9 13 12.44	3 48.36	16 5 40.5	17 13.1	65.85	15 46.66
10.0	St	5 21.03	8.77	9 17 0.80	3 47.78	15 48 27.4	17 28.2	65.77	15 46.82
11.0	Mo	+5 12.26	9.35	9 20 48.58	3 47.21	+15 30 59.2	17 43.2	65.68	15 46.97
12.0	Di	5 2.91	9.91	9 24 35.79	3 46.64	15 13 16.0	17 57.8	65.60	15 47.14
13.0	Mi	4 53.00	10.46	9 28 22.43	3 46.10	14 55 18.2	18 12.1	65.52	15 47.30
14.0	Do	4 42.54	11.00	9 32 8.53	3 45.56	14 37 6.1	18 26.2	65.44	15 47.46
15.0	Fr	4 31.54	11.52	9 35 54.09	3 45.03	14 18 39.9	18 40.0	65.36	15 47.62
16.0	Sa	4 20.02	12.03	9 39 39.12	3 44.52	13 59 59.9	18 53.5	65.28	15 47.79
17.0	St	+4 7.99	12.53	9 43 23.64	3 44.03	+13 41 6.4	19 6.6	65.21	15 47.97
18.0	Mo	3 55.46	13.02	9 47 7.67	3 43.53	13 21 59.8	19 19.4	65.13	15 48.14
19.0	Di	3 42.44	13.49	9 50 51.20	3 43.06	13 2 40.4	19 31.9	65.06	15 48.32
20.0	Mi	3 28.95	13.96	9 54 34.26	3 42.59	12 43 8.5	19 44.2	64.98	15 48.51
21.0	Do	3 14.99	14.42	9 58 16.85	3 42.14	12 23 24.3	19 56.0	64.91	15 48.69
22.0	Fr	3 0.57	14.87	10 1 58.99	3 41.69	12 3 28.3	20 7.5	64.85	15 48.88
23.0	Sa	+2 45.70	15.30	10 5 40.68	3 41.25	+11 43 20.8	20 18.7	64.78	15 49.07
24.0	St	2 30.40	15.73	10 9 21.93	3 40.82	11 23 2.1	20 29.5	64.71	15 49.27
25.0	Mo	2 14.67	16.15	10 13 2.75	3 40.40	11 2 32.6	20 40.0	64.65	15 49.48
26.0	Di	1 58.52	16.56	10 16 43.15	3 39.99	10 41 52.6	20 50.2	64.59	15 49.68
27.0	Mi	1 41.96	16.96	10 20 23.14	3 39.60	10 21 2.4	20 59.9	64.53	15 49.90
28.0	Do	1 25.00	17.34	10 24 2.74	3 39.21	10 0 2.5	21 9.4	64.48	15 50.11
29.0	Fr	+1 7.66	17.71	10 27 41.95	3 38.84	+ 9 38 53.1	21 18.6	64.43	15 50.33
30.0	Sa	0 49.95	18.07	10 31 20.79	3 38.49	9 17 34.5	21 27.4	64.38	15 50.55
31.0	St	0 31.88	18.42	10 34 59.28	3 38.14	8 56 7.1	21 35.9	64.33	15 50.78
Sept. 1.0	Mo	+0 13.46	18.74	10 38 37.42	3 37.81	8 34 31.2	21 44.1	64.28	15 51.01
2.0	Di	—0 5.28	19.05	10 42 15.23	3 37.50	8 12 47.1	21 51.9	64.24	15 51.24
3.0	Mi	0 24.33		10 45 52.73		7 50 55.2		64.19	15 51.48

Tag	Julian. Tag	0h mittlere Zeit Greenwich Sternzeit	Mittleres Äquinoktium 1919.0 Länge		Breite	log R		Untergang in +50° Breite	Aufgang 0h Länge
1919	2422	h m s	° ′ ″	′ ″	″			h m	h m
Juli 24	164	8 4 38.33	120 31 15.2	57 20.0	−0.15	0.006 8097	393	7 55	16 18
25	165	8 8 34.89	121 28 35.2	57 20.6	−0.28	0.006 7704	419	7 54	16 19
26	166	8 12 31.44	122 25 55.8	57 21.5	−0.38	0.006 7285	444	7 53	16 20
27	167	8 16 28.00	123 23 17.3	57 22.1	−0.46	0.006 6841	470	7 51	16 22
28	168	8 20 24.56	124 20 39.4	57 22.8	−0.50	0.006 6371	494	7 50	16 23
29	169	8 24 21.11	125 18 2.2	57 23.5	−0.52	0.006 5877	519	7 49	16 24
30	170	8 28 17.67	126 15 25.7	57 24.0	−0.50	0.006 5358	542	7 47	16 26
31	171	8 32 14.22	127 12 49.7	57 24.7	−0.46	0.006 4816	563	7 46	16 27
Aug. 1	172	8 36 10.78	128 10 14.4	57 25.3	−0.39	0.006 4253	585	7 44	16 29
2	173	8 40 7.33	129 7 39.7	57 26.0	−0.29	0.006 3668	604	7 43	16 30
3	174	8 44 3.89	130 5 5.7	57 26.6	−0.19	0.006 3064	622	7 41	16 31
4	175	8 48 0.44	131 2 32.3	57 27.3	−0.08	0.006 2442	639	7 40	16 33
5	176	8 51 57.00	131 59 59.6	57 28.1	+0.03	0.006 1803	656	7 38	16 34
6	177	8 55 53.55	132 57 27.7	57 28.9	+0.16	0.006 1147	671	7 36	16 36
7	178	8 59 50.11	133 54 56.6	57 29.7	+0.28	0.006 0476	685	7 35	16 37
8	179	9 3 46.66	134 52 26.3	57 30.6	+0.38	0.005 9791	698	7 33	16 39
9	180	9 7 43.22	135 49 56.9	57 31.6	+0.47	0.005 9093	710	7 31	16 40
10	181	9 11 39.77	136 47 28.5	57 32.7	+0.55	0.005 8383	721	7 29	16 42
11	182	9 15 36.33	137 45 1.2	57 33.7	+0.59	0.005 7662	732	7 28	16 43
12	183	9 19 32.88	138 42 34.9	57 35.0	+0.60	0.005 6930	743	7 26	16 45
13	184	9 23 29.44	139 40 9.9	57 36.3	+0.59	0.005 6187	753	7 24	16 46
14	185	9 27 25.99	140 37 46.2	57 37.8	+0.55	0.005 5434	764	7 22	16 48
15	186	9 31 22.54	141 35 24.0	57 39.2	+0.48	0.005 4670	776	7 20	16 49
16	187	9 35 19.10	142 33 3.2	57 40.7	+0.38	0.005 3894	788	7 19	16 51
17	188	9 39 15.65	143 30 43.9	57 42.4	+0.26	0.005 3106	803	7 17	16 52
18	189	9 43 12.21	144 28 26.3	57 44.1	+0.12	0.005 2303	818	7 15	16 54
19	190	9 47 8.76	145 26 10.4	57 45.7	−0.01	0.005 1485	834	7 13	16 55
20	191	9 51 5.31	146 23 56.1	57 47.4	−0.14	0.005 0651	851	7 11	16 57
21	192	9 55 1.87	147 21 43.5	57 49.1	−0.26	0.004 9800	870	7 9	16 58
22	193	9 58 58.42	148 19 32.6	57 50.7	−0.36	0.004 8930	889	7 7	16 59
23	194	10 2 54.97	149 17 23.3	57 52.2	−0.43	0.004 8041	908	7 5	17 1
24	195	10 6 51.53	150 15 15.5	57 53.9	−0.47	0.004 7133	929	7 3	17 2
25	196	10 10 48.08	151 13 9.4	57 55.3	−0.50	0.004 6204	949	7 1	17 4
26	197	10 14 44.63	152 11 4.7	57 56.9	−0.48	0.004 5255	968	6 59	17 5
27	198	10 18 41.19	153 9 1.6	57 58.1	−0.44	0.004 4287	986	6 57	17 7
28	199	10 22 37.74	154 6 59.7	57 59.7	−0.37	0.004 3301	1004	6 55	17 8
29	200	10 26 34.29	155 4 59.4	58 1.1	−0.28	0.004 2297	1021	6 53	17 10
30	201	10 30 30.85	156 3 0.5	58 2.5	−0.18	0.004 1276	1035	6 51	17 11
31	202	10 34 27.40	157 1 3.0	58 3.9	−0.06	0.004 0241	1050	6 48	17 13
Sept. 1	203	10 38 23.95	157 59 6.9	58 5.2	+0.06	0.003 9191	1063	6 46	17 14
2	204	10 42 20.51	158 57 12.1	58 6.7	+0.18	0.003 8128	1075	6 44	17 16
3	205	10 46 17.06	159 55 18.8		+0.30	0.003 7053		6 42	17 17

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1919		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Sept. 3.0	Mi	— 0 24.33	19.34	10 45 52.73	3 37.21	+7 50 55.2	21 59.4	64.19	15 51.48
4.0	Do	0 43.67	19.62	10 49 29.94	3 36.94	7 28 55.8	22 6.6	64.15	15 51.72
5.0	Fr	1 3.29	19.87	10 53 6.88	3 36.68	7 6 49.2	22 13.5	64.12	15 51.96
6.0	Sa	1 23.16	20.11	10 56 43.56	3 36.44	6 44 35.7	22 20.0	64.08	15 52.20
7.0	St	1 43.27	20.33	11 0 20.00	3 36.22	6 22 15.7	22 26.4	64.05	15 52.44
8.0	Mo	2 3.60	20.53	11 3 56.22	3 36.03	5 59 49.3	22 32.3	64.02	15 52.68
9.0	Di	— 2 24.13	20.69	11 7 32.25	3 35.86	+5 37 17.0	22 38.0	63.99	15 52.92
10.0	Mi	2 44.82	20.84	11 11 8.11	3 35.71	5 14 39.0	22 43.3	63.97	15 53.17
11.0	Do	3 5.66	20.97	11 14 43.82	3 35.58	4 51 55.7	22 48.4	63.95	15 53.42
12.0	Fr	3 26.63	21.07	11 18 19.40	3 35.48	4 29 7.3	22 53.2	63.93	15 53.67
13.0	Sa	3 47.70	21.15	11 21 54.88	3 35.40	4 6 14.1	22 57.6	63.92	15 53.91
14.0	St	4 8.85	21.21	11 25 30.28	3 35.35	3 43 16.5	23 1.7	63.90	15 54.16
15.0	Mo	— 4 30.06	21.24	11 29 5.63	3 35.32	+3 20 14.8	23 5.5	63.89	15 54.41
16.0	Di	4 51.30	21.25	11 32 40.95	3 35.30	2 57 9.3	23 9.0	63.89	15 54.66
17.0	Mi	5 12.55	21.25	11 36 16.25	3 35.30	2 34 0.3	23 12.1	63.88	15 54.92
18.0	Do	5 33.80	21.22	11 39 51.55	3 35.33	2 10 48.2	23 14.9	63.88	15 55.17
19.0	Fr	5 55.02	21.18	11 43 26.88	3 35.38	1 47 33.3	23 17.3	63.88	15 55.43
20.0	Sa	6 16.20	21.11	11 47 2.26	3 35.44	1 24 16.0	23 19.4	63.89	15 55.69
21.0	St	— 6 37.31	21.04	11 50 37.70	3 35.51	+1 0 56.6	23 21.1	63.90	15 55.95
22.0	Mo	6 58.35	20.94	11 54 13.21	3 35.61	0 37 35.5	23 22.4	63.91	15 56.21
23.0	Di	7 19.29	20.83	11 57 48.82	3 35.72	+0 14 13.1	23 23.4	63.92	15 56.48
24.0	Mi	7 40.12	20.70	12 1 24.54	3 35.85	—0 9 10.3	23 24.1	63.94	15 56.74
25.0	Do	8 0.82	20.56	12 5 0.39	3 35.99	0 32 34.4	23 24.3	63.96	15 57.01
26.0	Fr	8 21.38	20.40	12 8 36.38	3 36.16	0 55 58.7	23 24.2	63.98	15 57.29
27.0	Sa	— 8 41.78	20.21	12 12 12.54	3 36.34	—1 19 22.9	23 23.8	64.01	15 57.56
28.0	St	9 1.99	20.01	12 15 48.88	3 36.54	1 42 46.7	23 22.9	64.04	15 57.84
29.0	Mo	9 22.00	19.80	12 19 25.42	3 36.76	2 6 9.6	23 21.8	64.07	15 58.12
30.0	Di	9 41.80	19.56	12 23 2.18	3 36.99	2 29 31.4	23 20.3	64.11	15 58.40
Okt. 1.0	Mi	10 1.36	19.30	12 26 39.17	3 37.25	2 52 51.7	23 18.5	64.15	15 58.68
2.0	Do	10 20.66	19.02	12 30 16.42	3 37.53	3 16 10.2	23 16.2	64.19	15 58.96
3.0	Fr	—10 39.68	18.73	12 33 53.95	3 37.82	—3 39 26.4	23 13.6	64.23	15 59.24
4.0	Sa	10 58.41	18.41	12 37 31.77	3 38.14	4 2 40.0	23 10.7	64.28	15 59.52
5.0	St	11 16.82	18.08	12 41 9.91	3 38.48	4 25 50.7	23 7.4	64.34	15 59.80
6.0	Mo	11 34.90	17.71	12 44 48.39	3 38.84	4 48 58.1	23 3.8	64.39	16 0.08
7.0	Di	11 52.61	17.33	12 48 27.23	3 39.22	5 12 1.9	22 59.9	64.45	16 0.36
8.0	Mi	12 9.94	16.93	12 52 6.45	3 39.63	5 35 1.8	22 55.5	64.51	16 0.64
9.0	Do	—12 26.87	16.49	12 55 46.08	3 40.06	—5 57 57.3	22 50.9	64.57	16 0.92
10.0	Fr	12 43.36	16.04	12 59 26.14	3 40.52	6 20 48.2	22 45.9	64.64	16 1.20
11.0	Sa	12 59.40	15.55	13 3 6.66	3 40.99	6 43 34.1	22 40.6	64.71	16 1.47
12.0	St	13 14.95	15.05	13 6 47.65	3 41.50	7 6 14.7	22 34.9	64.78	16 1.74
13.0	Mo	13 30.00	14.53	13 10 29.15	3 42.03	7 28 49.6	22 28.9	64.85	16 2.01
14.0	Di	13 44.53		13 14 11.18		7 51 18.5		64.93	16 2.29

Tag	Julian. Tag	0h mittlere Zeit Greenwich: Sternzeit	Mittleres Äquinoktium 1919.0: Länge		Breite	log R		Untergang in +50° Breite 0h Länge	Aufgang in +50° Breite 0h Länge
1919	2422	h m s	° ′ ″	′ ″	″			h m	h m
Sept. 3	205	10 46 17.06	159 55 18.8	58 8.1	+0.30	0.003 7053	1085	6 42	17 17
4	206	10 50 13.61	160 53 26.9	58 9.5	+0.42	0.003 5968	1094	6 40	17 19
5	207	10 54 10.16	161 51 36.4	58 11.1	+0.51	0.003 4874	1102	6 38	17 20
6	208	10 58 6.72	162 49 47.5	58 12.6	+0.59	0.003 3772	1108	6 36	17 22
7	209	11 2 3.27	163 48 0.1	58 14.1	+0.64	0.003 2664	1113	6 34	17 23
8	210	11 5 59.82	164 46 14.2	58 15.9	+0.67	0.003 1551	1118	6 31	17 25
9	211	11 9 56.38	165 44 30.1	58 17.6	+0.65	0.003 0433	1121	6 29	17 26
10	212	11 13 52.93	166 42 47.7	58 19.4	+0.61	0.002 9312	1123	6 27	17 28
11	213	11 17 49.48	167 41 7.1	58 21.4	+0.54	0.002 8189	1125	6 25	17 29
12	214	11 21 46.03	168 39 28.5	58 23.3	+0.46	0.002 7064	1129	6 23	17 31
13	215	11 25 42.58	169 37 51.8	58 25.6	+0.34	0.002 5935	1133	6 21	17 32
14	216	11 29 39.14	170 36 17.4	58 27.6	+0.22	0.002 4802	1136	6 18	17 34
15	217	11 33 35.69	171 34 45.0	58 29.7	+0.09	0.002 3666	1143	6 16	17 35
16	218	11 37 32.24	172 33 14.7	58 32.0	−0.04	0.002 2523	1149	6 14	17 37
17	219	11 41 28.79	173 31 46.7	58 34.2	−0.15	0.002 1374	1156	6 12	17 38
18	220	11 45 25.35	174 30 20.9	58 36.5	−0.26	0.002 0218	1166	6 10	17 40
19	221	11 49 21.90	175 28 57.4	58 38.6	−0.33	0.001 9052	1175	6 7	17 41
20	222	11 53 18.45	176 27 36.0	58 40.8	−0.38	0.001 7877	1185	6 5	17 43
21	223	11 57 15.00	177 26 16.8	58 42.9	−0.39	0.001 6692	1197	6 3	17 44
22	224	12 1 11.56	178 24 59.7	58 44.9	−0.38	0.001 5495	1207	6 1	17 46
23	225	12 5 8.11	179 23 44.6	58 47.0	−0.35	0.001 4288	1217	5 58	17 47
24	226	12 9 4.66	180 22 31.6	58 48.9	−0.27	0.001 3071	1228	5 56	17 49
25	227	12 13 1.21	181 21 20.5	58 50.8	−0.18	0.001 1843	1237	5 54	17 50
26	228	12 16 57.76	182 20 11.3	58 52.7	−0.07	0.001 0606	1246	5 52	17 52
27	229	12 20 54.32	183 19 4.0	58 54.6	+0.06	0.000 9360	1255	5 50	17 53
28	230	12 24 50.87	184 17 58.6	58 56.4	+0.19	0.000 8105	1260	5 47	17 55
29	231	12 28 47.42	185 16 55.0	58 58.2	+0.33	0.000 6845	1265	5 45	17 57
30	232	12 32 43.97	186 15 53.2	59 0.0	+0.45	0.000 5580	1271	5 43	17 58
Okt. 1	233	12 36 40.53	187 14 53.2	59 1.7	+0.57	0.000 4309	1273	5 41	18 0
2	234	12 40 37.08	188 13 54.9	59 3.5	+0.68	0.000 3036	1274	5 39	18 1
3	235	12 44 33.63	189 12 58.4	59 5.3	+0.76	0.000 1762	1275	5 37	18 3
4	236	12 48 30.18	190 12 3.7	59 7.0	+0.82	0.000 0487	1274	5 34	18 4
5	237	12 52 26.73	191 11 10.7	59 9.0	+0.85	9.999 9213	1270	5 32	18 6
6	238	12 56 23.29	192 10 19.7	59 10.6	+0.85	9.999 7943	1266	5 30	18 7
7	239	13 0 19.84	193 9 30.3	59 12.6	+0.83	9.999 6677	1260	5 28	18 9
8	240	13 4 16.39	194 8 42.9	59 14.6	+0.77	9.999 5417	1253	5 26	18 10
9	241	13 8 12.94	195 7 57.5	59 16.6	+0.69	9.999 4164	1245	5 24	18 12
10	242	13 12 9.50	196 7 14.1	59 18.7	+0.58	9.999 2919	1237	5 22	18 14
11	243	13 16 6.05	197 6 32.8	59 20.9	+0.45	9.999 1682	1229	5 19	18 15
12	244	13 20 2.60	198 5 53.7	59 23.1	+0.32	9.999 0453	1222	5 17	18 17
13	245	13 23 59.16	199 5 16.8	59 25.5	+0.19	9.998 9231	1216	5 15	18 18
14	246	13 27 55.71	200 4 42.3		+0.06	9.998 8015		5 13	18 20

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1919		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Okt. 14.0	Di	—13 44.53	13.98	13 14 11.18	3 42.57	— 7 51 18.5	22 22.4	64.93	16 2.29
15.0	Mi	13 58.51	13.42	13 17 53.75	3 43.13	8 13 40.9	22 15.6	65.01	16 2.55
16.0	Do	14 11.93	12.83	13 21 36.88	3 43.72	8 35 56.5	22 8.3	65.09	16 2.82
17.0	Fr	14 24.76	12.24	13 25 20.60	3 44.32	8 58 4.8	22 0.8	65.17	16 3.08
18.0	Sa	14 37.00	11.62	13 29 4.92	3 44.93	9 20 5.6	21 52.8	65.26	16 3.35
19.0	St	14 48.62	10.99	13 32 49.85	3 45.57	9 41 58.4	21 44.3	65.35	16 3.62
20.0	Mo	—14 59.61	10.34	13 36 35.42	3 46.21	—10 3 42.7	21 35.6	65.44	16 3.88
21.0	Di	15 9.95	9.69	13 40 21.63	3 46.86	10 25 18.3	21 26.4	65.53	16 4.15
22.0	Mi	15 19.64	9.02	13 44 8.49	3 47.54	10 46 44.7	21 16.7	65.62	16 4.41
23.0	Do	15 28.66	8.34	13 47 56.03	3 48.21	11 8 1.4	21 6.6	65.72	16 4.68
24.0	Fr	15 37.00	7.65	13 51 44.24	3 48.90	11 29 8.0	20 56.3	65.82	16 4.95
25.0	Sa	15 44.65	6.95	13 55 33.14	3 49.61	11 50 4.3	20 45.3	65.92	16 5.21
26.0	St	—15 51.60	6.23	13 59 22.75	3 50.32	—12 10 49.6	20 34.1	66.02	16 5.47
27.0	Mo	15 57.83	5.51	14 3 13.07	3 51.04	12 31 23.7	20 22.5	66.13	16 5.74
28.0	Di	16 3.34	4.77	14 7 4.11	3 51.78	12 51 46.2	20 10.3	66.24	16 6.01
29.0	Mi	16 8.11	4.03	14 10 55.89	3 52.53	13 11 56.5	19 57.9	66.34	16 6.27
30.0	Do	16 12.14	3.28	14 14 48.42	3 53.27	13 31 54.4	19 45.0	66.45	16 6.53
31.0	Fr	16 15.42	2.52	14 18 41.69	3 54.04	13 51 39.4	19 31.7	66.56	16 6.79
Nov. 1.0	Sa	—16 17.94	1.74	14 22 35.73	3 54.81	—14 11 11.1	19 17.9	66.68	16 7.05
2.0	St	16 19.68	0.96	14 26 30.54	3 55.60	14 30 29.0	19 3.9	66.79	16 7.30
3.0	Mo	16 20.64	0.17	14 30 26.14	3 56.38	14 49 32.9	18 49.4	66.90	16 7.56
4.0	Di	16 20.81	0.63	14 34 22.52	3 57.18	15 8 22.3	18 34.5	67.02	16 7.81
5.0	Mi	16 20.18	1.44	14 38 19.70	3 58.00	15 26 56.8	18 19.1	67.14	16 8.06
6.0	Do	16 18.74	2.26	14 42 17.70	3 58.82	15 45 15.9	18 3.5	67.25	16 8.31
7.0	Fr	—16 16.48	3.10	14 46 16.52	3 59.65	—16 3 19.4	17 47.5	67.37	16 8.54
8.0	Sa	16 13.38	3.94	14 50 16.17	4 0.49	16 21 6.9	17 31.0	67.49	16 8.78
9.0	St	16 9.44	4.78	14 54 16.66	4 1.35	16 38 37.9	17 14.1	67.61	16 9.02
10.0	Mo	16 4.66	5.65	14 58 18.01	4 2.20	16 55 52.0	16 56.9	67.73	16 9.24
11.0	Di	15 59.01	6.52	15 2 20.21	4 3.07	17 12 48.9	16 39.2	67.85	16 9.46
12.0	Mi	15 52.49	7.38	15 6 23.28	4 3.94	17 29 28.1	16 21.3	67.97	16 9.69
13.0	Do	—15 45.11	8.25	15 10 27.22	4 4.81	—17 45 49.4	16 2.8	68.09	16 9.90
14.0	Fr	15 36.86	9.13	15 14 32.03	4 5.68	18 1 52.2	15 43.9	68.20	16 10.11
15.0	Sa	15 27.73	9.99	15 18 37.71	4 6.54	18 17 36.1	15 24.8	68.32	16 10.33
16.0	St	15 17.74	10.85	15 22 44.25	4 7.41	18 33 0.9	15 5.1	68.44	16 10.53
17.0	Mo	15 6.89	11.71	15 26 51.66	4 8.26	18 48 6.0	14 45.1	68.56	16 10.73
18.0	Di	14 55.18	12.55	15 30 59.92	4 9.11	19 2 51.1	14 24.6	68.68	16 10.94
19.0	Mi	—14 42.63	13.39	15 35 9.03	4 9.95	—19 17 15.7	14 3.9	68.79	16 11.14
20.0	Do	14 29.24	14.22	15 39 18.98	4 10.77	19 31 19.6	13 42.7	68.90	16 11.33
21.0	Fr	14 15.02	15.03	15 43 29.75	4 11.59	19 45 2.3	13 21.1	69.02	16 11.53
22.0	Sa	13 59.99	15.83	15 47 41.34	4 12.39	19 58 23.4	12 59.2	69.13	16 11.72
23.0	St	13 44.16	16.62	15 51 53.73	4 13.18	20 11 22.6	12 36.9	69.24	16 11.91
24.0	Mo	13 27.54		15 56 6.91		20 23 59.5		69.35	16 12.10

Tag		Julian. Tag	0h mittlere Zeit Greenwich: Sternzeit	Mittleres Äquinoktium 1919.0: Länge		Breite	log R		Untergang in +50° Breite	Aufgang 0h Länge
1919		2422	h m s	° ′ ″		″			h m	h m
Okt.	14	246	13 27 55.71	200 4 42.3	59 27.8	+0.06	9.998 8015	1210	5 13	18 20
	15	247	13 31 52.26	201 4 10.1	59 30.1	−0.04	9.998 6805	1206	5 11	18 22
	16	248	13 35 48.81	202 3 40.2	59 32.5	−0.13	9.998 5599	1203	5 9	18 23
	17	249	13 39 45.37	203 3 12.7	59 34.8	−0.18	9.998 4396	1201	5 7	18 25
	18	250	13 43 41.92	204 2 47.5	59 37.1	−0.20	9.998 3195	1199	5 5	18 26
	19	251	13 47 38.47	205 2 24.6	59 39.3	−0.19	9.998 1996	1199	5 3	18 28
	20	252	13 51 35.03	206 2 3.9	59 41.5	−0.14	9.998 0797	1198	5 1	18 30
	21	253	13 55 31.58	207 1 45.4	59 43.6	−0.07	9.997 9599	1197	4 59	18 31
	22	254	13 59 28.13	208 1 29.0	59 45.6	+0.01	9.997 8402	1197	4 57	18 33
	23	255	14 3 24.69	209 1 14.6	59 47.7	+0.13	9.997 7205	1197	4 55	18 34
	24	256	14 7 21.24	210 1 2.3	59 49.6	+0.25	9.997 6008	1195	4 53	18 36
	25	257	14 11 17.79	211 0 51.9	59 51.5	+0.39	9.997 4813	1194	4 51	18 38
	26	258	14 15 14.35	212 0 43.4	59 53.3	+0.53	9.997 3619	1191	4 50	18 39
	27	259	14 19 10.90	213 0 36.7	59 55.1	+0.66	9.997 2428	1187	4 48	18 41
	28	260	14 23 7.45	214 0 31.8	59 56.8	+0.79	9.997 1241	1182	4 46	18 43
	29	261	14 27 4.01	215 0 28.6	59 58.4	+0.90	9.997 0059	1177	4 44	18 44
	30	262	14 31 0.56	216 0 27.0	60 0.1	+0.99	9.996 8882	1170	4 42	18 46
	31	263	14 34 57.12	217 0 27.1	60 1.8	+1.06	9.996 7712	1162	4 41	18 48
Nov.	1	264	14 38 53.67	218 0 28.9	60 3.3	+1.09	9.996 6550	1151	4 39	18 49
	2	265	14 42 50.22	219 0 32.2	60 4.9	+1.10	9.996 5399	1141	4 37	18 51
	3	266	14 46 46.78	220 0 37.1	60 6.4	+1.07	9.996 4258	1127	4 36	18 53
	4	267	14 50 43.33	221 0 43.5	60 8.1	+1.02	9.996 3131	1112	4 34	18 54
	5	268	14 54 39.89	222 0 51.6	60 9.7	+0.93	9.996 2019	1095	4 32	18 56
	6	269	14 58 36.44	223 1 1.3	60 11.4	+0.83	9.996 0924	1078	4 31	18 58
	7	270	15 2 33.00	224 1 12.7	60 13.1	+0.72	9.995 9846	1060	4 29	18 59
	8	271	15 6 29.55	225 1 25.8	60 14.9	+0.58	9.995 8786	1040	4 27	19 1
	9	272	15 10 26.11	226 1 40.7	60 16.8	+0.45	9.995 7746	1022	4 26	19 3
	10	273	15 14 22.66	227 1 57.5	60 18.6	+0.31	9.995 6724	1004	4 24	19 4
	11	274	15 18 19.22	228 2 16.1	60 20.6	+0.19	9.995 5720	986	4 23	19 6
	12	275	15 22 15.77	229 2 36.7	60 22.5	+0.09	9.995 4734	970	4 21	19 8
	13	276	15 26 12.33	230 2 59.2	60 24.5	+0.03	9.995 3764	955	4 20	19 9
	14	277	15 30 8.88	231 3 23.7	60 26.5	−0.01	9.995 2809	940	4 19	19 11
	15	278	15 34 5.44	232 3 50.2	60 28.4	−0.01	9.995 1869	928	4 17	19 13
	16	279	15 38 1.99	233 4 18.6	60 30.1	+0.01	9.995 0941	915	4 16	19 14
	17	280	15 41 58.55	234 4 48.7	60 32.0	+0.07	9.995 0026	903	4 15	19 16
	18	281	15 45 55.11	235 5 20.7	60 33.7	+0.15	9.994 9123	893	4 14	19 17
	19	282	15 49 51.66	236 5 54.4	60 35.4	+0.26	9.994 8230	881	4 13	19 19
	20	283	15 53 48.22	237 6 29.8	60 36.9	+0.37	9.994 7349	871	4 11	19 21
	21	284	15 57 44.77	238 7 6.7	60 38.5	+0.50	9.994 6478	860	4 10	19 22
	22	285	16 1 41.33	239 7 45.2	60 39.9	+0.63	9.994 5618	850	4 9	19 24
	23	286	16 5 37.89	240 8 25.1	60 41.3	+0.76	9.994 4768	838	4 8	19 25
	24	287	16 9 34.44	241 9 6.4		+0.89	9.994 3930		4 7	19 27

Mittlere Zeit Greenwich	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1919		m s	s	h m s	m s	° ′ ″	′ ″		′ ″
Nov. 24.0	Mo	−13 27.54	17.39	15 56 6.91	4 13.94	−20 23 59.5	12 14.3	69.35	16 12.10
25.0	Di	13 10.15	18.15	16 0 20.85	4 14.71	20 36 13.8	11 51.3	69.46	16 12.29
26.0	Mi	12 52.00	18.89	16 4 35.56	4 15.44	20 48 5.1	11 28.0	69.56	16 12.47
27.0	Do	12 33.11	19.60	16 8 51.00	4 16.16	20 59 33.1	11 4.4	69.66	16 12.65
28.0	Fr	12 13.51	20.30	16 13 7.16	4 16.86	21 10 37.5	10 40.4	69.76	16 12.83
29.0	Sa	11 53.21	20.98	16 17 24.02	4 17.53	21 21 17.9	10 16.1	69.86	16 12.99
30.0	St	−11 32.23	21.65	16 21 41.55	4 18.20	−21 31 34.0	9 51.5	69.95	16 13.16
Dez. 1.0	Mo	11 10.58	22.28	16 25 59.75	4 18.84	21 41 25.5	9 26.6	70.04	16 13.33
2.0	Di	10 48.30	22.89	16 30 18.59	4 19.46	21 50 52.1	9 1.5	70.13	16 13.49
3.0	Mi	10 25.41	23.50	16 34 38.05	4 20.05	21 59 53.6	8 36.1	70.22	16 13.64
4.0	Do	10 1.91	24.08	16 38 58.10	4 20.63	22 8 29.7	8 10.4	70.30	16 13.80
5.0	Fr	9 37.83	24.63	16 43 18.73	4 21.19	22 16 40.1	7 44.5	70.38	16 13.94
6.0	Sa	−9 13.20	25.17	16 47 39.92	4 21.73	−22 24 24.6	7 18.3	70.46	16 14.08
7.0	St	8 48.03	25.70	16 52 1.65	4 22.25	22 31 42.9	6 51.9	70.53	16 14.21
8.0	Mo	8 22.33	26.19	16 56 23.90	4 22.75	22 38 34.8	6 25.3	70.60	16 14.34
9.0	Di	7 56.14	26.66	17 0 46.65	4 23.22	22 45 0.1	5 58.5	70.66	16 14.46
10.0	Mi	7 29.48	27.12	17 5 9.87	4 23.68	22 50 58.6	5 31.4	70.72	16 14.58
11.0	Do	7 2.36	27.54	17 9 33.55	4 24.09	22 56 30.0	5 4.3	70.77	16 14.69
12.0	Fr	−6 34.82	27.93	17 13 57.64	4 24.49	−23 1 34.3	4 36.9	70.82	16 14.79
13.0	Sa	6 6.89	28.30	17 18 22.13	4 24.86	23 6 11.2	4 9.4	70.87	16 14.89
14.0	St	5 38.59	28.64	17 22 46.99	4 25.20	23 10 20.6	3 41.6	70.92	16 14.99
15.0	Mo	5 9.95	28.93	17 27 12.19	4 25.49	23 14 2.2	3 13.9	70.96	16 15.08
16.0	Di	4 41.02	29.20	17 31 37.68	4 25.76	23 17 16.1	2 46.0	70.99	16 15.16
17.0	Mi	4 11.82	29.43	17 36 3.44	4 25.99	23 20 2.1	2 17.9	71.02	16 15.24
18.0	Do	−3 42.39	29.63	17 40 29.43	4 26.18	−23 22 20.0	1 49.8	71.05	16 15.32
19.0	Fr	3 12.76	29.78	17 44 55.61	4 26.34	23 24 9.8	1 21.7	71.07	16 15.39
20.0	Sa	2 42.98	29.90	17 49 21.95	4 26.46	23 25 31.5	0 53.5	71.09	16 15.46
21.0	St	2 13.08	29.99	17 53 48.41	4 26.54	23 26 25.0	0 25.1	71.10	16 15.53
22.0	Mo	1 43.09	30.03	17 58 14.95	4 26.59	23 26 50.1	0 3.1	71.11	16 15.59
23.0	Di	1 13.06	30.03	18 2 41.54	4 26.59	23 26 47.0	0 31.4	71.12	16 15.65
24.0	Mi	−0 43.03	30.01	18 7 8.13	4 26.57	−23 26 15.6	0 59.6	71.12	16 15.70
25.0	Do	−0 13.02	29.94	18 11 34.70	4 26.49	23 25 16.0	1 27.9	71.11	16 15.75
26.0	Fr	+0 16.92	29.82	18 16 1.19	4 26.39	23 23 48.1	1 56.1	71.10	16 15.80
27.0	Sa	0 46.74	29.69	18 20 27.58	4 26.24	23 21 52.0	2 24.2	71.09	16 15.84
28.0	St	1 16.43	29.51	18 24 53.82	4 26.07	23 19 27.8	2 52.3	71.07	16 15.88
29.0	Mo	1 45.94	29.29	18 29 19.89	4 25.85	23 16 35.5	3 20.2	71.05	16 15.91
30.0	Di	+2 15.23	29.04	18 33 45.74	4 25.60	−23 13 15.3	3 48.1	71.02	16 15.94
31.0	Mi	2 44.27	28.76	18 38 11.34	4 25.32	23 9 27.2	4 15.9	70.99	16 15.96
32.0	Do	3 13.03		18 42 36.66		23 5 11.3		70.95	16 15.98

Tag	Julian. Tag	0ʰ mittlere Zeit Greenwich: Sternzeit	Mittleres Äquinoktium 1919.0: Länge		Breite	log R		Untergang in +50° Breite 0ʰ Länge	Aufgang in +50° Breite 0ʰ Länge
1919	2422	h m s	° ′ ″	′ ″	″			h m	h m
Nov. 24	287	16 9 34.44	241 9 6.4	60 42.5	+0.89	9.994 3930	826	4 7	19 27
25	288	16 13 31.00	242 9 48.9	60 43.8	+0.99	9.994 3104	814	4 6	19 28
26	289	16 17 27.55	243 10 32.7	60 44.9	+1.09	9.994 2290	800	4 5	19 30
27	290	16 21 24.11	244 11 17.6	60 46.0	+1.16	9.994 1490	786	4 5	19 31
28	291	16 25 20.67	245 12 3.6	60 47.1	+1.19	9.994 0704	771	4 4	19 33
29	292	16 29 17.22	246 12 50.7	60 47.9	+1.21	9.993 9933	754	4 3	19 34
30	293	16 33 13.78	247 13 38.6	60 49.0	+1.19	9.993 9179	736	4 2	19 35
Dez. 1	294	16 37 10.34	248 14 27.6	60 49.7	+1.14	9.993 8443	717	4 2	19 37
2	295	16 41 6.90	249 15 17.3	60 50.6	+1.07	9.993 7726	695	4 1	19 38
3	296	16 45 3.45	250 16 7.9	60 51.5	+0.97	9.993 7031	672	4 1	19 39
4	297	16 49 0.01	251 16 59.4	60 52.3	+0.84	9.993 6359	648	4 0	19 41
5	298	16 52 56.57	252 17 51.7	60 53.2	+0.71	9.993 5711	622	4 0	19 42
6	299	16 56 53.12	253 18 44.9	60 54.3	+0.56	9.993 5089	595	3 59	19 43
7	300	17 0 49.68	254 19 39.2	60 55.1	+0.42	9.993 4494	569	3 59	19 44
8	301	17 4 46.24	255 20 34.3	60 56.1	+0.29	9.993 3925	541	3 59	19 45
9	302	17 8 42.79	256 21 30.4	60 57.3	+0.19	9.993 3384	515	3 59	19 46
10	303	17 12 39.35	257 22 27.7	60 58.4	+0.11	9.993 2869	490	3 58	19 47
11	304	17 16 35.91	258 23 26.1	60 59.4	+0.05	9.993 2379	466	3 58	19 48
12	305	17 20 32.47	259 24 25.5	61 0.6	+0.03	9.993 1913	442	3 58	19 49
13	306	17 24 29.02	260 25 26.1	61 1.7	+0.05	9.993 1471	420	3 58	19 50
14	307	17 28 25.58	261 26 27.8	61 2.6	+0.09	9.993 1051	400	3 58	19 51
15	308	17 32 22.14	262 27 30.4	61 3.6	+0.15	9.993 0651	380	3 58	19 52
16	309	17 36 18.70	263 28 34.0	61 4.5	+0.24	9.993 0271	361	3 58	19 53
17	310	17 40 15.26	264 29 38.5	61 5.5	+0.35	9.992 9910	343	3 59	19 54
18	311	17 44 11.81	265 30 44.0	61 6.1	+0.47	9.992 9567	325	3 59	19 54
19	312	17 48 8.37	266 31 50.1	61 6.9	+0.59	9.992 9242	307	3 59	19 55
20	313	17 52 4.93	267 32 57.0	61 7.4	+0.71	9.992 8935	291	4 0	19 56
21	314	17 56 1.49	268 34 4.4	61 8.0	+0.84	9.992 8644	274	4 0	19 56
22	315	17 59 58.04	269 35 12.4	61 8.5	+0.95	9.992 8370	258	4 0	19 57
23	316	18 3 54.60	270 36 20.9	61 8.8	+1.04	9.992 8112	240	4 1	19 57
24	317	18 7 51.16	271 37 29.7	61 9.1	+1.12	9.992 7872	224	4 2	19 57
25	318	18 11 47.72	272 38 38.8	61 9.2	+1.17	9.992 7648	206	4 2	19 58
26	319	18 15 44.28	273 39 48.0	61 9.4	+1.19	9.992 7442	187	4 3	19 58
27	320	18 19 40.83	274 40 57.4	61 9.4	+1.17	9.992 7255	168	4 4	19 58
28	321	18 23 37.39	275 42 6.8	61 9.3	+1.13	9.992 7087	148	4 4	19 59
29	322	18 27 33.95	276 43 16.1	61 9.2	+1.06	9.992 6939	127	4 5	19 59
30	323	18 31 30.51	277 44 25.3	61 9.1	+0.95	9.992 6812	103	4 6	19 59
31	324	18 35 27.06	278 45 34.4	61 8.9	+0.82	9.992 6709	79	4 7	19 59
32	325	18 39 23.62	279 46 43.3		+0.68	9.992 6630		4 8	19 59

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Y	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Z	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)
1919									
Jan. 1.0	+0.171 3583	7179.3		—0.888 2967	1168.2		—0.385 3173	507.0	
1.5	0.179 9667	7167.9	+14132	0.886 8601	1226.1	+2422	0.384 6938	532.1	+1053
2.0	0.188 5610	7155.8		0.885 3541	1283.8		0.384 0402	557.1	
2.5	0.197 1404	7143.2	14083	0.883 7790	1341.5	2652	0.383 3567	582.1	1153
3.0	0.205 7045	7130.1		0.882 1346	1399.1		0.382 6432	607.1	
3.5	0.214 2524	7116.3	14029	0.880 4212	1456.5	2881	0.381 8997	632.0	1253
4.0	+0.222 7834	7101.9		—0.878 6390	1513.8		—0.381 1264	656.8	
4.5	0.231 2967	7086.9	+13971	0.876 7882	1570.9	+3110	0.380 3234	681.6	+1353
5.0	0.239 7917	7071.3		0.874 8688	1628.0		0.379 4907	706.3	
5.5	0.248 2676	7055.2	13908	0.872 8811	1684.8	3338	0.378 6284	730.9	1452
6.0	0.256 7240	7038.6		0.870 8253	1741.5		0.377 7366	755.5	
6.5	0.265 1600	7021.3	13841	0.868 7016	1798.0	3565	0.376 8153	779.9	1551
7.0	+0.273 5749	7003.4		—0.866 5102	1854.3		—0.375 8648	804.3	
7.5	0.281 9680	6985.0	+13770	0.864 2513	1910.4	+3790	0.374 8851	828.6	+1649
8.0	0.290 3388	6966.2		0.861 9252	1966.4		0.373 8762	852.9	
8.5	0.298 6866	6946.8	13695	0.859 5320	2022.2	4014	0.372 8382	877.1	1746
9.0	0.307 0108	6926.8		0.857 0720	2077.8		0.371 7713	901.1	
9.5	0.315 3107	6906.2	13615	0.854 5454	2133.2	4237	0.370 6755	925.1	1842
10.0	+0.323 5856	6885.2		—0.851 9525	2188.3		—0.369 5510	949.0	
10.5	0.331 8350	6863.7	+13531	0.849 2937	2243.2	+4458	0.368 3979	972.8	+1938
11.0	0.340 0583	6841.7		0.846 5689	2298.0		0.367 2163	996.5	
11.5	0.348 2548	6819.1	13443	0.843 7786	2352.5	4678	0.366 0063	1020.1	2034
12.0	0.356 4240	6796.1		0.840 9230	2406.8		0.364 7680	1043.7	
12.5	0.364 5652	6772.5	13351	0.838 0023	2460.9	4897	0.363 5015	1067.1	2129
13.0	+0.372 6779	6748.5		—0.835 0169	2514.8		—0.362 2069	1090.5	
13.5	0.380 7615	6724.1	+13255	0.831 9669	2568.4	+5114	0.360 8843	1113.8	+2224
14.0	0.388 8155	6699.1		0.828 8527	2621.9		0.359 5338	1137.0	
14.5	0.396 8392	6673.6	13155	0.825 6744	2675.2	5329	0.358 1555	1160.1	2318
15.0	0.404 8321	6647.8		0.822 4324	2728.2		0.356 7495	1183.2	
15.5	0.412 7937	6621.4	13050	0.819 1268	2781.0	5543	0.355 3159	1206.1	2411
16.0	+0.420 7233	6594.5		—0.815 7580	2833.6		—0.353 8549	1228.9	
16.5	0.428 6204	6567.2	+12942	0.812 3261	2886.1	+5755	0.352 3665	1251.7	+2503
17.0	0.436 4844	6539.4		0.808 8314	2938.3		0.350 8508	1274.4	
17.5	0.444 3148	6511.1	12829	0.805 2742	2990.3	5966	0.349 3079	1297.0	2594
18.0	0.452 1109	6482.4		0.801 6547	3042.1		0.347 7380	1319.5	
18.5	0.459 8723	6453.2	12713	0.797 9732	3093.7	6175	0.346 1411	1341.9	2685
19.0	+0.467 5983	6423.5		—0.794 2298	3145.1		—0.344 5174	1364.2	
19.5	0.475 2884	6393.2	+12592	0.790 4250	3196.2	+6381	0.342 8670	1386.4	+2775
20.0	0.482 9419	6362.5		0.786 5589	3247.2		0.341 1900	1408.6	
20.5	0.490 5583	6331.4	12468	0.782 6318	3297.9	6586	0.339 4865	1430.6	2864
21.0	0.498 1370	6299.7		0.778 6440	3348.4		0.337 7567	1452.5	
21.5	0.505 6774	6267.5	12339	0.774 5957	3398.7	6788	0.336 0006	1474.3	2952

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
Jan. 21.5	+0.505 6774	6267.5	+12339	−0.774 5957	3398.7	+ 6788	−0.336 0006	1474.3	+2952
22.0	0.513 1789	6234.9		0.770 4873	3448.7		0.334 2183	1496.1	
22.5	0.520 6410	6201.8	12207	0.766 3190	3498.4	6989	0.332 4100	1517.6	3039
23.0	0.528 0630	6168.2		0.762 0912	3547.9		0.330 5759	1539.1	
23.5	0.535 4446	6134.2	12071	0.757 8042	3597.1	7187	0.328 7161	1560.5	3125
24.0	0.542 7849	6099.6		0.753 4582	3646.1		0.326 8308	1581.8	
24.5	+0.550 0834	6064.5	+11931	−0.749 0536	3694.8	+ 7383	−0.324 9199	1603.0	+3210
25.0	0.557 3395	6028.9		0.744 5907	3743.3		0.322 9837	1624.0	
25.5	0.564 5525	5992.8	11788	0.740 0698	3791.4	7577	0.321 0224	1644.9	3295
26.0	0.571 7220	5956.3		0.735 4914	3839.3		0.319 0360	1665.7	
26.5	0.578 8475	5919.3	11641	0.730 8556	3886.9	7769	0.317 0247	1686.3	3379
27.0	0.585 9282	5881.9		0.726 1629	3934.2		0.314 9889	1706.8	
27.5	+0.592 9638	5844.0	+11491	−0.721 4136	3981.2	+ 7958	−0.312 9285	1727.2	+3461
28.0	0.599 9535	5805.5		0.716 6082	4027.9		0.310 8437	1747.5	
28.5	0.606 8968	5766.6	11337	0.711 7469	4074.3	8145	0.308 7346	1767.6	3542
29.0	0.613 7931	5727.2		0.706 8301	4120.3		0.306 6015	1787.6	
29.5	0.620 6418	5687.3	11179	0.701 8583	4166.1	8329	0.304 4445	1807.3	3622
30.0	0.627 4424	5646.9		0.696 8317	4211.5		0.302 2639	1827.0	
30.5	+0.634 1942	5606.1	+11018	−0.691 7509	4256.5	+ 8510	−0.300 0597	1846.6	+3701
31.0	0.640 8968	5564.9		0.686 6162	4301.3		0.297 8322	1865.9	
31.5	0.647 5497	5523.2	10853	0.681 4280	4345.6	8689	0.295 5816	1885.1	3779
Febr. 1.0	0.654 1522	5480.9		0.676 1869	4389.6		0.293 3080	1904.2	
1.5	0.660 7038	5438.3	10685	0.670 8932	4433.1	8865	0.291 0116	1923.1	3856
2.0	0.667 2040	5395.2		0.665 5475	4476.3		0.288 6927	1941.7	
2.5	+0.673 6522	5351.7	+10513	−0.660 1502	4519.2	+ 9039	−0.286 3515	1960.2	+3931
3.0	0.680 0479	5307.8		0.654 7016	4561.7		0.283 9882	1978.7	
3.5	0.686 3907	5263.4	10339	0.649 2024	4603.6	9209	0.281 6028	1996.9	4005
4.0	0.692 6800	5218.7		0.643 6531	4645.2		0.279 1958	2014.8	
4.5	0.698 9155	5173.6	10161	0.638 0540	4686.5	9377	0.276 7672	2032.7	4078
5.0	0.705 0966	5128.1		0.632 4057	4727.3		0.274 3173	2050.4	
5.5	+0.711 2229	5082.3	+ 9980	−0.626 7086	4767.6	+ 9542	−0.271 8463	2067.9	+4150
6.0	0.717 2939	5036.0		0.620 9635	4807.6		0.269 3545	2085.1	
6.5	0.723 3092	4989.4	9796	0.615 1706	4847.1	9704	0.266 8420	2102.3	4220
7.0	0.729 2683	4942.4		0.609 3306	4886.2		0.264 3091	2119.2	
7.5	0.735 1709	4895.2	9609	0.603 4439	4924.8	9863	0.261 7559	2136.0	4289
8.0	0.741 0166	4847.6		0.597 5111	4963.1		0.259 1827	2152.6	
8.5	+0.746 8050	4799.6	+ 9419	−0.591 5325	5001.1	+10019	−0.256 5897	2169.0	+4357
9.0	0.752 5356	4751.4		0.585 5087	5038.6		0.253 9771	2185.3	
9.5	0.758 2082	4702.8	9226	0.579 4401	5075.7	10172	0.251 3450	2201.4	4424
10.0	0.763 8223	4654.0		0.573 3273	5112.3		0.248 6939	2217.2	
10.5	0.769 3777	4604.8	9031	0.567 1708	5148.4	10321	0.246 0237	2233.0	4489
11.0	0.774 8739	4555.4		0.560 9712	5184.2		0.243 3347	2248.6	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	*Y*	Stündliche Änderung	Reduktion auf 1925.0	*Z*	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
Febr. 11.0	+0.774 8739	4555.4		−0.560 9712	5184.2		−0.243 3347	2248.6	
11.5	0.780 3106	4505.6	+8832	0.554 7288	5219.7	+10468	0.240 6272	2263.9	+4553
12.0	0.785 6873	4455.5		0.548 4441	5254.7		0.237 9014	2279.1	
12.5	0.791 0038	4405.2	8631	0.542 1176	5289.4	10611	0.235 1573	2294.2	4615
13.0	0.796 2596	4354.5		0.535 7497	5323.7		0.232 3953	2309.1	
13.5	0.801 4545	4303.6	8427	0.529 3409	5357.5	10751	0.229 6155	2323.8	4676
14.0	+0.806 5881	4252.4		−0.522 8918	5390.9		−0.226 8183	2338.3	
14.5	0.811 6601	4200.9	+8221	0.516 4028	5424.0	+10888	0.224 0037	2352.7	+4735
15.0	0.816 6701	4149.1		0.509 8744	5456.6		0.221 1719	2366.9	
15.5	0.821 6178	4097.1	8012	0.503 3071	5488.8	11021	0.218 3232	2380.9	4793
16.0	0.826 5029	4044.7		0.496 7014	5520.7		0.215 4578	2394.7	
16.5	0.831 3249	3992.0	7801	0.490 0576	5552.2	11151	0.212 5759	2408.4	4849
17.0	+0.836 0836	3939.1		−0.483 3763	5583.2		−0.209 6777	2421.9	
17.5	0.840 7786	3885.9	+7587	0.476 6580	5613.8	+11278	0.206 7634	2435.2	+4904
18.0	0.845 4096	3832.4		0.469 9032	5644.1		0.203 8332	2448.4	
18.5	0.849 9763	3778.6	7371	0.463 1123	5673.9	11401	0.200 8873	2461.4	4958
19.0	0.854 4781	3724.5		0.456 2859	5703.4		0.197 9260	2474.1	
19.5	0.858 9149	3670.1	7153	0.449 4244	5732.4	11521	0.194 9495	2486.7	5010
20.0	+0.863 2862	3615.4		−0.442 5284	5760.9		−0.191 9580	2499.1	
20.5	0.867 5918	3560.5	+6932	0.435 5984	5789.0	+11637	0.188 9517	2511.4	+5061
21.0	0.871 8313	3505.3		0.428 6349	5816.7		0.185 9308	2523.5	
21.5	0.876 0045	3449.9	6709	0.421 6384	5844.0	11749	0.182 8955	2535.2	5110
22.0	0.880 1110	3394.2		0.414 6094	5870.9		0.179 8463	2546.8	
22.5	0.884 1505	3338.3	6485	0.407 5484	5897.3	11858	0.176 7832	2558.3	5157
23.0	+0.888 1227	3282.1		−0.400 4560	5923.2		−0.173 7064	2569.7	
23.5	0.892 0273	3225.5	+6259	0.393 3328	5948.7	+11963	0.170 6161	2580.7	+5203
24.0	0.895 8638	3168.7		0.386 1792	5973.9		0.167 5128	2591.5	
24.5	0.899 6320	3111.6	6030	0.378 9957	5998.5	12065	0.164 3965	2602.2	5247
25.0	0.903 3316	3054.4		0.371 7831	6022.6		0.161 2676	2612.7	
25.5	0.906 9624	2996.9	5800	0.364 5417	6046.3	12163	0.158 1261	2623.0	5290
26.0	+0.910 5240	2939.1		−0.357 2722	6069.5		−0.154 9724	2633.0	
26.5	0.914 0162	2881.2	+5568	0.349 9750	6092.3	+12258	0.151 8070	2642.8	+5331
27.0	0.917 4387	2822.9		0.342 6509	6114.5		0.148 6299	2652.5	
27.5	0.920 7911	2764.4	5334	0.335 3003	6136.3	12348	0.145 4412	2661.9	5370
28.0	0.924 0732	2705.7		0.327 9239	6157.6		0.142 2414	2671.1	
28.5	0.927 2846	2646.7	5098	0.320 5222	6178.4	12436	0.139 0306	2680.2	5408
März 1.0	+0.930 4252	2587.6		−0.313 0959	6198.7		−0.135 8091	2688.9	
1.5	0.933 4947	2528.2	+4861	0.305 6456	6218.5	+12519	0.132 5773	2697.4	+5444
2.0	0.936 4928	2468.7		0.298 1718	6237.8		0.129 3353	2705.8	
2.5	0.939 4195	2409.1	4622	0.290 6751	6256.5	12598	0.126 0835	2713.8	5479
3.0	0.942 2745	2349.2		0.283 1564	6274.6		0.122 8222	2721.7	
3.5	0.945 0575	2289.1	4382	0.275 6162	6292.3	12673	0.119 5516	2729.3	5512

Mittlere Zeit Greenwich	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
	Mittleres Äquinoktium 1919.0								
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
März 3.5	+0.945 0575	2289.1	+4382	−0.275 6162	6292.3	+12673	−0.119 5516	2729.3	+5512
4.0	0.947 7682	2228.8		0.268 0551	6309.5		0.116 2720	2736.7	
4.5	0.950 4066	2168.5	4141	0.260 4737	6326.1	12745	0.112 9836	2743.9	5543
5.0	0.952 9725	2108.0		0.252 8727	6342.2		0.109 6868	2750.8	
5.5	0.955 4658	2047.5	3898	0.245 2527	6357.8	12813	0.106 3817	2757.6	5572
6.0	0.957 8864	1986.8		0.237 6143	6372.8		0.103 0687	2764.1	
6.5	+0.960 2342	1926.1	+3654	−0.229 9582	6387.2	+12877	−0.099 7480	2770.4	+5600
7.0	0.962 5090	1865.2		0.222 2851	6401.2		0.096 4199	2776.4	
7.5	0.964 7107	1804.3	3409	0.214 5954	6414.8	12937	0.093 0847	2782.2	5626
8.0	0.966 8392	1743.2		0.206 8898	6427.8		0.089 7426	2787.9	
8.5	0.968 8944	1682.1	3163	0.199 1688	6440.3	12993	0.086 3939	2793.3	5650
9.0	0.970 8763	1621.0		0.191 4333	6452.2		0.083 0388	2798.5	
9.5	+0.972 7848	1559.8	+2916	−0.183 6837	6463.7	+13045	−0.079 6775	2803.5	+5673
10.0	0.974 6199	1498.6		0.175 9206	6474.7		0.076 3105	2808.2	
10.5	0.976 3814	1437.2	2669	0.168 1447	6485.1	13092	0.072 9378	2812.9	5694
11.0	0.978 0693	1375.9		0.160 3565	6495.2		0.069 5597	2817.2	
11.5	0.979 6836	1314.5	2420	0.152 5565	6504.7	13136	0.066 1766	2821.3	5713
12.0	0.981 2241	1253.1		0.144 7454	6513.7		0.062 7885	2825.3	
12.5	+0.982 6910	1191.7	+2171	−0.136 9237	6522.3	+13176	−0.059 3959	2829.0	+5730
13.0	0.984 0841	1130.2		0.129 0920	6530.5		0.055 9989	2832.6	
13.5	0.985 4034	1068.6	1921	0.121 2508	6538.1	13213	0.052 5978	2835.9	5746
14.0	0.986 6488	1007.0		0.113 4008	6545.2		0.049 1927	2839.1	
14.5	0.987 8203	945.5	1671	0.105 5424	6552.0	13245	0.045 7840	2842.0	5760
15.0	0.988 9179	883.8		0.097 6763	6558.2		0.042 3719	2844.8	
15.5	+0.989 9415	822.2	+1420	−0.089 8030	6563.9	+13273	−0.038 9566	2847.3	+5772
16.0	0.990 8911	760.5		0.081 9230	6569.3		0.035 5384	2849.6	
16.5	0.991 7667	698.8	1169	0.074 0368	6574.2	13297	0.032 1176	2851.7	5783
17.0	0.992 5682	637.0		0.066 1452	6578.5		0.028 6943	2853.6	
17.5	0.993 2955	575.2	918	0.058 2486	6582.4	13318	0.025 2689	2855.4	5792
18.0	0.993 9487	513.4		0.050 3475	6585.9		0.021 8414	2857.0	
18.5	+0.994 5276	451.5	+ 666	−0.042 4425	6588.9	+13335	−0.018 4122	2858.3	+5799
19.0	0.995 0323	389.6		0.034 5343	6591.4		0.014 9816	2859.4	
19.5	0.995 4627	327.7	414	0.026 6233	6593.5	13347	0.011 5497	2860.3	5804
20.0	0.995 8189	265.9		0.018 7101	6595.1		0.008 1169	2861.0	
20.5	0.996 1009	204.0	+ 162	0.010 7952	6596.2	13355	0.004 6834	2861.4	5808
21.0	0.996 3085	142.0		−0.002 8794	6596.8		−0.001 2495	2861.8	
21.5	+0.996 4418	80.2	− 90	+0.005 0370	6596.9	+13359	+0.002 1848	2861.9	+5810
22.0	0.996 5010	18.3		0.012 9531	6596.6		0.005 6189	2861.7	
22.5	0.996 4858	43.6	343	0.020 8687	6595.8	13360	0.009 0527	2861.4	5810
23.0	0.996 3964	105.5		0.028 7829	6594.5		0.012 4861	2860.8	
23.5	0.996 2325	167.5	595	0.036 6954	6592.8	13357	0.015 9186	2860.0	5808
24.0	0.995 9944	229.5		0.044 6056	6590.6		0.019 3500	2859.0	

Mittlere Zeit Greenwich	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
	Mittleres Äquinoktium 1919.0								
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
März 24.0	+0.995 9944	229.5		+0.044 6056	6590.6		+0.019 3500	2859.0	
24.5	0.995 6818	291.4	− 847	0.052 5127	6587.9	+13349	0.022 7802	2857.9	+5805
25.0	0.995 2950	353.3		0.060 4163	6584.7		0.026 2088	2856.5	
25.5	0.994 8339	415.1	1099	0.068 3158	6581.0	13338	0.029 6357	2854.9	5800
26.0	0.994 2987	477.0		0.076 2105	6576.8		0.033 0605	2853.1	
26.5	0.993 6891	538.8	1351	0.084 1000	6572.2	13322	0.036 4830	2851.0	5794
27.0	+0.993 0055	600.6		+0.091 9835	6567.0		+0.039 9028	2848.7	
27.5	0.992 2477	662.4	−1602	0.099 8605	6561.3	+13303	0.043 3198	2846.2	+5785
28.0	0.991 4157	724.2		0.107 7304	6555.1		0.046 7335	2843.4	
28.5	0.990 5097	785.8	1853	0.115 5926	6548.5	13279	0.050 1439	2840.5	5775
29.0	0.989 5297	847.5		0.123 4464	6541.2		0.053 5507	2837.4	
29.5	0.988 4758	909.0	2103	0.131 2912	6533.4	13252	0.056 9535	2833.9	5763
30.0	+0.987 3481	970.5		+0.139 1264	6525.1		+0.060 3520	2830.3	
30.5	0.986 1467	1031.9	−2352	0.146 9513	6516.3	+13220	0.063 7461	2826.4	+5749
31.0	0.984 8716	1093.2		0.154 7654	6507.1		0.067 1354	2822.4	
31.5	0.983 5230	1154.4	2601	0.162 5680	6497.2	13184	0.070 5198	2818.1	5733
April 1.0	0.982 1011	1215.4		0.170 3584	6486.8		0.073 8988	2813.6	
1.5	0.980 6060	1276.4	2849	0.178 1361	6476.0	13145	0.077 2723	2808.8	5716
2.0	+0.979 0378	1337.2		+0.185 9005	6464.5		+0.080 6399	2803.9	
2.5	0.977 3968	1397.8	−3097	0.193 6508	6452.6	+13102	0.084 0015	2798.8	+5698
3.0	0.975 6832	1458.2		0.201 3865	6440.2		0.087 3568	2793.3	
3.5	0.973 8971	1518.6	3343	0.209 1070	6427.2	13055	0.090 7054	2787.7	5678
4.0	0.972 0387	1578.7		0.216 8116	6413.8		0.094 0472	2781.8	
4.5	0.970 1083	1638.6	3588	0.224 4999	6399.9	13004	0.097 3817	2775.8	5656
5.0	+0.968 1060	1698.4		+0.232 1712	6385.5		+0.100 7090	2769.6	
5.5	0.966 0322	1757.9	−3832	0.239 8250	6370.7	+12949	0.104 0286	2763.1	+5632
6.0	0.963 8870	1817.3		0.247 4607	6355.4		0.107 3404	2756.5	
6.5	0.961 6708	1876.4	4075	0.255 0777	6339.6	12890	0.110 6442	2749.7	5606
7.0	0.959 3837	1935.4		0.262 6756	6323.4		0.113 9396	2742.6	
7.5	0.957 0260	1994.1	4317	0.270 2536	6306.6	12828	0.117 2264	2735.4	5579
8.0	+0.954 5979	2052.7		+0.277 8113	6289.5		+0.120 5045	2728.1	
8.5	0.952 0997	2110.9	−4558	0.285 3483	6272.0	+12762	0.123 7737	2720.4	+5550
9.0	0.949 5317	2169.0		0.292 8640	6254.1		0.127 0335	2712.6	
9.5	0.946 8941	2226.8	4797	0.300 3579	6235.7	12692	0.130 2840	2704.7	5520
10.0	0.944 1873	2284.6		0.307 8294	6216.8		0.133 5248	2696.6	
10.5	0.941 4112	2342.1	5035	0.315 2780	6197.5	12618	0.136 7557	2688.2	5488
11.0	+0.938 5663	2399.4		+0.322 7033	6177.9		+0.139 9765	2679.7	
11.5	0.935 6527	2456.5	−5271	0.330 1047	6157.7	+12541	0.143 1870	2671.1	+5454
12.0	0.932 6709	2513.3		0.337 4817	6137.2		0.146 3870	2662.2	
12.5	0.929 6210	2569.9	5506	0.344 8338	6116.3	12460	0.149 5763	2653.2	5419
13.0	0.926 5032	2626.3		0.352 1606	6095.0		0.152 7546	2643.9	
13.5	0.923 3179	2682.5	5739	0.359 4617	6073.3	12375	0.155 9217	2634.6	5382

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
April 13.5	+0.923 3179	2682.5	−5739	+0.359 4617	6073.3	+12375	+0.155 9217	2634.6	+5382
14.0	0.920 0653	2738.5		0.366 7364	6051.2		0.159 0775	2625.1	
14.5	0.916 7455	2794.4	5970	0.373 9844	6028.7	12287	0.162 2218	2615.3	5344
15.0	0.913 3589	2850.0		0.381 2051	6005.7		0.165 3541	2605.3	
15.5	0.909 9057	2905.2	6199	0.388 3979	5982.3	12195	0.168 4745	2595.2	5304
16.0	0.906 3864	2960.3		0.395 5625	5958.6		0.171 5825	2584.9	
16.5	+0.902 8010	3015.3	−6427	+0.402 6983	5934.4	+12099	+0.174 6782	2574.5	+5263
17.0	0.899 1498	3070.0		0.409 8049	5909.8		0.177 7612	2563.8	
17.5	0.895 4332	3124.4	6653	0.416 8818	5884.9	12000	0.180 8312	2553.0	5220
18.0	0.891 6514	3178.6		0.423 9286	5859.6		0.183 8883	2542.1	
18.5	0.887 8046	3232.7	6877	0.430 9448	5833.8	11898	0.186 9321	2530.8	5175
19.0	0.883 8931	3286.5		0.437 9297	5807.7		0.189 9622	2519.4	
19.5	+0.879 9172	3339.9	−7099	+0.444 8831	5781.1	+11793	+0.192 9787	2507.9	+5129
20.0	0.875 8774	3393.2		0.451 8042	5754.1		0.195 9812	2496.2	
20.5	0.871 7736	3446.4	7319	0.458 6928	5726.8	11684	0.198 9696	2484.3	5081
21.0	0.867 6062	3499.2		0.465 5483	5699.0		0.201 9435	2472.2	
21.5	0.863 3756	3551.8	7537	0.472 3703	5670.9	11571	0.204 9029	2460.1	5031
22.0	0.859 0820	3604.2		0.479 1582	5642.3		0.207 8476	2447.7	
22.5	+0.854 7257	3656.2	−7753	+0.485 9116	5613.3	+11455	+0.210 7773	2435.1	+4981
23.0	0.850 3071	3708.1		0.492 6300	5583.9		0.213 6917	2422.3	
23.5	0.845 8264	3759.6	7966	0.499 3129	5554.1	11335	0.216 5907	2409.4	4930
24.0	0.841 2841	3810.9		0.505 9598	5524.0		0.219 4741	2396.3	
24.5	0.836 6802	3862.1	8177	0.512 5703	5493.4	11212	0.222 3417	2382.9	4877
25.0	0.832 0152	3912.9		0.519 1438	5462.4		0.225 1930	2369.3	
25.5	+0.827 2894	3963.4	−8386	+0.525 6799	5430.9	+11086	+0.228 0281	2355.7	+4822
26.0	0.822 5031	4013.7		0.532 1779	5399.0		0.230 8467	2341.9	
26.5	0.817 6567	4063.6	8593	0.538 6374	5366.7	10957	0.233 6485	2327.8	4765
27.0	0.812 7506	4113.2		0.545 0579	5334.0		0.236 4334	2313.6	
27.5	0.807 7851	4162.6	8797	0.551 4389	5300.9	10824	0.239 2011	2299.2	4707
28.0	0.802 7606	4211.5		0.557 7799	5267.4		0.241 9515	2284.6	
28.5	+0.797 6775	4260.3	−8998	+0.564 0805	5233.5	+10689	+0.244 6842	2269.9	+4648
29.0	0.792 5361	4308.6		0.570 3401	5199.1		0.247 3992	2255.0	
29.5	0.787 3369	4356.6	9197	0.576 5582	5164.3	10550	0.250 0961	2239.8	4588
30.0	0.782 0804	4404.2		0.582 7343	5129.2		0.252 7748	2224.6	
30.5	0.776 7670	4451.4	9393	0.588 8681	5093.6	10408	0.255 4351	2209.2	4526
Mai 1.0	0.771 3972	4498.2		0.594 9588	5057.6		0.258 0768	2193.6	
1.5	+0.765 9714	4544.7	−9586	+0.601 0063	5021.3	+10263	+0.260 6997	2177.8	+4463
2.0	0.760 4900	4590.8		0.607 0099	4984.6		0.263 3035	2161.8	
2.5	0.754 9536	4636.5	9776	0.612 9692	4947.6	10115	0.265 8881	2145.8	4399
3.0	0.749 3626	4681.8		0.618 8839	4910.2		0.268 4534	2129.6	
3.5	0.743 7175	4726.6	9964	0.624 7535	4872.4	9964	0.270 9991	2113.2	4333
4.0	0.738 0188	4771.1		0.630 5776	4834.4		0.273 5251	2096.7	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	*Y*	Stündliche Änderung	Reduktion auf 1925.0	*Z*	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
Mai 4.0	+0.738 0188	4771.1		+0.630 5776	4834.4		+0.273 5251	2096.7	
4.5	0.732 2669	4815.2	−10149	0.636 3559	4796.0	+9810	0.276 0312	2080.1	+4267
5.0	0.726 4624	4858.9		0.642 0878	4757.3		0.278 5173	2063.4	
5.5	0.720 6056	4902.2	10331	0.647 7732	4718.3	9654	0.280 9832	2046.4	4199
6.0	0.714 6973	4945.0		0.653 4115	4678.9		0.283 4287	2029.4	
6.5	0.708 7377	4987.5	10510	0.659 0024	4639.2	9495	0.285 8537	2012.3	4130
7.0	+0.702 7274	5029.6		+0.664 5455	4599.3		+0.288 2581	1995.0	
7.5	0.696 6668	5071.3	−10686	0.670 0407	4559.2	+9333	0.290 6416	1977.6	+4059
8.0	0.690 5564	5112.6		0.675 4874	4518.7		0.293 0043	1960.1	
8.5	0.684 3967	5153.5	10859	0.680 8854	4478.0	9168	0.295 3458	1942.4	3988
9.0	0.678 1881	5194.0		0.686 2344	4437.0		0.297 6661	1924.6	
9.5	0.671 9312	5234.1	11028	0.691 5341	4395.6	9001	0.299 9649	1906.8	3915
10.0	+0.665 6264	5273.8		+0.696 7838	4353.9		+0.302 2423	1888.8	
10.5	0.659 2743	5313.1	−11194	0.701 9835	4312.1	+8831	0.304 4979	1870.6	+3841
11.0	0.652 8751	5352.1		0.707 1328	4270.0		0.306 7318	1852.4	
11.5	0.646 4295	5390.6	11357	0.712 2315	4227.7	8659	0.308 9437	1834.1	3766
12.0	0.639 9379	5428.8		0.717 2791	4185.0		0.311 1335	1815.6	
12.5	0.633 4006	5466.6	11517	0.722 2754	4142.1	8484	0.313 3010	1796.9	3690
13.0	+0.626 8182	5504.0		+0.727 2201	4099.0		+0.315 4461	1778.2	
13.5	0.620 1911	5541.0	−11674	0.732 1128	4055.5	+8307	0.317 5686	1759.4	+3613
14.0	0.613 5199	5577.6		0.736 9533	4011.9		0.319 6686	1740.5	
14.5	0.606 8050	5613.8	11827	0.741 7413	3968.0	8128	0.321 7458	1721.4	3535
15.0	0.600 0469	5649.6		0.746 4763	3923.7		0.323 8000	1702.3	
15.5	0.593 2460	5685.1	11977	0.751 1582	3879.3	7946	0.325 8312	1683.1	3456
16.0	+0.586 4029	5720.1		+0.755 7866	3834.7		+0.327 8393	1663.7	
16.5	0.579 5179	5754.8	−12124	0.760 3614	3789.8	+7762	0.329 8240	1644.2	+3376
17.0	0.572 5916	5789.1		0.764 8821	3744.7		0.331 7853	1624.6	
17.5	0.565 6243	5822.9	12267	0.769 3485	3699.3	7575	0.333 7230	1604.9	3294
18.0	0.558 6167	5856.4		0.773 7603	3653.6		0.335 6370	1585.1	
18.5	0.551 5691	5889.5	12407	0.778 1171	3607.7	7387	0.337 5271	1565.1	3212
19.0	+0.544 4821	5922.2		+0.782 4186	3561.5		+0.339 3933	1545.1	
19.5	0.537 3559	5954.5	−12543	0.786 6646	3515.1	+7196	0.341 2354	1525.0	+3129
20.0	0.530 1914	5986.3		0.790 8548	3468.5		0.343 0532	1504.7	
20.5	0.522 9889	6017.9	12675	0.794 9890	3421.6	7004	0.344 8467	1484.4	3045
21.0	0.515 7487	6049.0		0.799 0666	3374.4		0.346 6156	1463.8	
21.5	0.508 4715	6079.6	12804	0.803 0876	3327.1	6809	0.348 3598	1443.2	2961
22.0	+0.501 1578	6109.9		+0.807 0516	3279.5		+0.350 0793	1422.6	
22.5	0.493 8079	6139.8	−12929	0.810 9583	3231.6	+6613	0.351 7739	1401.7	+2875
23.0	0.486 4225	6169.1		0.814 8074	3183.5		0.353 4434	1380.8	
23.5	0.479 0021	6198.1	13051	0.818 5986	3135.2	6414	0.355 0879	1359.8	2789
24.0	0.471 5471	6226.7		0.822 3317	3086.6		0.356 7070	1338.7	
24.5	0.464 0581	6254.9	13169	0.826 0063	3037.7	6213	0.358 3008	1317.5	2702

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
Mai 24.5	+0.464 0581	6254.9	−13169	+0.826 0063	3037.7	+6213	+0.358 3008	1317.5	+2702
25.0	0.456 5356	6282.6		0.829 6221	2988.5		0.359 8690	1296.2	
25.5	0.448 9801	6309.8	13283	0.833 1787	2939.2	6011	0.361 4116	1274.7	2614
26.0	0.441 3923	6336.5		0.836 6761	2889.7		0.362 9283	1253.2	
26.5	0.433 7727	6362.8	13393	0.840 1138	2839.8	5807	0.364 4192	1231.5	2525
27.0	0.426 1218	6388.7		0.843 4915	2789.7		0.365 8839	1209.8	
27.5	+0.418 4401	6414.0	−13500	+0.846 8090	2739.4	+5602	+0.367 3227	1188.1	+2436
28.0	0.410 7285	6438.7		0.850 0661	2689.0		0.368 7352	1166.1	
28.5	0.402 9874	6463.0	13602	0.853 2625	2638.3	5394	0.370 1213	1144.1	2346
29.0	0.395 2174	6486.9		0.856 3979	2587.3		0.371 4810	1122.0	
29.5	0.387 4191	6510.1	13701	0.859 4720	2536.2	5185	0.372 8141	1099.8	2255
30.0	0.379 5933	6532.9		0.862 4848	2484.9		0.374 1206	1077.6	
30.5	+0.371 7404	6555.2	−13796	+0.865 4358	2433.5	+4975	+0.375 4003	1055.3	+2164
31.0	0.363 8611	6576.9		0.868 3251	2381.9		0.376 6532	1032.9	
31.5	0.355 9560	6598.2	13887	0.871 1522	2330.0	4763	0.377 8793	1010.5	2072
Juni 1.0	0.348 0257	6618.9		0.873 9172	2278.1		0.379 0784	988.0	
1.5	0.340 0709	6639.0	13974	0.876 6197	2226.1	4550	0.380 2504	965.4	1979
2.0	0.332 0923	6658.7		0.879 2597	2173.9		0.381 3954	942.8	
2.5	+0.324 0903	6677.8	−14057	+0.881 8370	2121.6	+4336	+0.382 5132	920.2	+1886
3.0	0.316 0657	6696.4		0.884 3516	2069.3		0.383 6038	897.5	
3.5	0.308 0190	6714.6	14136	0.886 8034	2016.8	4121	0.384 6671	874.7	1792
4.0	0.299 9508	6732.3		0.889 1919	1964.1		0.385 7031	852.0	
4.5	0.291 8617	6749.5	14211	0.891 5173	1911.5	3904	0.386 7118	829.1	1698
5.0	0.283 7523	6766.1		0.893 7794	1858.7		0.387 6930	806.2	
5.5	+0.275 6232	6782.3	14282	+0.895 9782	1805.9	+3686	+0.388 6468	783.4	+1603
6.0	0.267 4749	6798.0		0.898 1136	1753.0		0.389 5731	760.5	
6.5	0.259 3081	6813.1	14349	0.900 1853	1699.9	3467	0.390 4719	737.5	1508
7.0	0.251 1234	6827.9		0.902 1933	1646.7		0.391 3430	714.5	
7.5	0.242 9213	6842.2	14412	0.904 1374	1593.5	3247	0.392 1866	691.4	1412
8.0	0.234 7024	6855.9		0.906 0176	1540.2		0.393 0024	668.3	
8.5	+0.226 4672	6869.3	−14471	+0.907 8339	1486.9	+3027	+0.393 7905	645.2	+1316
9.0	0.218 2163	6882.2		0.909 5861	1433.5		0.394 5509	622.1	
9.5	0.209 9502	6894.5	14526	0.911 2743	1380.0	2805	0.395 2836	599.0	1220
10.0	0.201 6696	6906.4		0.912 8981	1326.4		0.395 9884	575.7	
10.5	0.193 3750	6917.9	14576	0.914 4577	1272.8	2583	0.396 6652	552.4	1123
11.0	0.185 0669	6928.8		0.915 9529	1219.2		0.397 3141	529.1	
11.5	+0.176 7460	6939.3	−14623	+0.917 3837	1165.5	+2360	+0.397 9350	505.7	+1026
12.0	0.168 4128	6949.3		0.918 7500	1111.7		0.398 5279	482.5	
12.5	0.160 0678	6958.9	14665	0.920 0517	1057.8	2136	0.399 0929	459.2	929
13.0	0.151 7117	6967.9		0.921 2887	1003.9		0.399 6299	435.7	
13.5	0.143 3449	6976.6	14703	0.922 4611	949.9	1912	0.400 1387	412.3	832
14.0	0.134 9680	6984.8		0.923 5685	895.8		0.400 6195	388.9	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0 — X	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Y	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Z	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)
1919									
Juni 14.0	+0.134 9680	6984.8		+0.923 5685	895.8		+0.400 6195	388.9	
14.5	0.126 5816	6992.5	−14736	0.924 6111	841.7	+1687	0.401 0720	365.4	+ 734
15.0	0.118 1862	6999.7		0.925 5887	787.7		0.401 4964	341.9	
15.5	0.109 7824	7006.5	14766	0.926 5015	733.6	1462	0.401 8926	318.4	636
16.0	0.101 3707	7012.9		0.927 3493	679.4		0.402 2606	294.9	
16.5	0.092 9515	7018.8	14792	0.928 1320	625.1	1236	0.402 6003	271.3	537
17.0	+0.084 5257	7024.1		+0.928 8495	570.8		+0.402 9117	247.7	
17.5	0.076 0937	7029.1	−14814	0.929 5018	516.4	+1010	0.403 1947	224.0	+ 438
18.0	0.067 6560	7033.6		0.930 0888	462.0		0.403 4494	200.4	
18.5	0.059 2132	7037.6	14832	0.930 6105	407.5	784	0.403 6757	176.8	340
19.0	0.050 7659	7041.2		0.931 0668	353.0		0.403 8736	153.1	
19.5	0.042 3146	7044.2	14845	0.931 4576	298.4	558	0.404 0430	129.4	241
20.0	+0.033 8600	7046.7		+0.931 7829	243.8		+0.404 1841	105.7	
20.5	0.025 4026	7048.9	−14854	0.932 0426	189.0	+ 331	0.404 2966	81.9	+ 143
21.0	0.016 9429	7050.5		0.932 2366	134.3		0.404 3806	58.1	
21.5	0.008 4816	7051.6	14859	0.932 3649	79.5	+ 104	0.404 4361	34.3	+ 45
22.0	+0.000 0192	7052.3		0.932 4274	24.7		0.404 4630	10.5	
22.5	−0.008 4436	7052.3	14860	0.932 4242	30.0	− 123	0.404 4612	13.3	− 53
23.0	−0.016 9062	7051.9		+0.932 3552	84.9		+0.404 4310	37.1	
23.5	0.025 3680	7050.9	−14857	0.932 2203	139.9	− 350	0.404 3721	61.0	− 151
24.0	0.033 8283	7049.5		0.932 0194	194.9		0.404 2846	84.9	
24.5	0.042 2867	7047.5	14849	0.931 7525	249.9	577	0.404 1684	108.7	250
25.0	0.050 7422	7045.0		0.931 4197	304.8		0.404 0237	132.5	
25.5	0.059 1945	7042.0	14837	0.931 0209	359.8	804	0.403 8503	156.4	349
26.0	−0.067 6428	7038.4		+0.930 5561	414.8		+0.403 6484	180.2	
26.5	0.076 0865	7034.3	−14821	0.930 0254	469.7	−1030	0.403 4178	204.0	− 448
27.0	0.084 5248	7029.5		0.929 4289	524.5		0.403 1587	227.8	
27.5	0.092 9572	7024.3	14801	0.928 7666	579.4	1256	0.402 8710	251.6	546
28.0	0.101 3830	7018.6		0.928 0383	634.3		0.402 5548	275.4	
28.5	0.109 8016	7012.3	14776	0.927 2444	689.0	1482	0.402 2101	299.1	644
29.0	−0.118 2122	7005.4		+0.926 3847	743.7		+0.401 8370	322.7	
29.5	0.126 6143	6998.0	−14747	0.925 4595	798.3	−1707	0.401 4355	346.4	− 742
30.0	0.135 0073	6990.2		0.924 4687	852.9		0.401 0056	370.1	
30.5	0.143 3905	6981.7	14714	0.923 4126	907.3	1932	0.400 5473	393.6	840
Juli 1.0	0.151 7632	6972.7		0.922 2912	961.6		0.400 0609	417.1	
1.5	0.160 1248	6963.3	14677	0.921 1047	1015.9	2156	0.399 5462	440.7	938
2.0	−0.168 4749	6953.4		+0.919 8531	1070.0		+0.399 0033	464.2	
2.5	0.176 8128	6943.0	−14636	0.918 5366	1124.1	−2380	0.398 4322	487.6	−1035
3.0	0.185 1378	6932.0		0.917 1554	1177.9		0.397 8331	510.9	
3.5	0.193 4494	6920.6	14591	0.915 7096	1231.7	2603	0.397 2060	534.2	1132
4.0	0.201 7470	6908.6		0.914 1994	1285.3		0.396 5511	557.4	
4.5	0.210 0299	6896.2	14542	0.912 6249	1338.9	2826	0.395 8682	580.6	1229

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0 X	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Y	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Z	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)
1919									
Juli 4.5	−0.210 0299	6896.2	−14542	+0.912 6249	1338.9	−2826	+0.395 8682	580.6	−1229
5.0	0.218 2978	6883.4		0.910 9861	1392.4		0.395 1576	603.8	
5.5	0.226 5498	6870.1	14489	0.909 2832	1445.7	3048	0.394 4191	626.9	1325
6.0	0.234 7857	6856.3		0.907 5164	1498.8		0.393 6531	649.9	
6.5	0.243 0047	6841.9	14431	0.905 6860	1551.9	3268	0.392 8593	672.9	1421
7.0	0.251 2062	6827.2		0.903 7919	1604.8		0.392 0381	695.8	
7.5	−0.259 3898	6812.0	−14370	+0.901 8346	1657.5	−3488	+0.391 1893	718.7	−1517
8.0	0.267 5549	6796.4		0.899 8140	1710.2		0.390 3132	741.5	
8.5	0.275 7009	6780.2	14304	0.897 7302	1762.7	3706	0.389 4096	764.3	1612
9.0	0.283 8273	6763.7		0.895 5836	1815.1		0.388 4788	787.0	
9.5	0.291 9335	6746.6	14235	0.893 3740	1867.4	3924	0.387 5207	809.7	1707
10.0	0.300 0190	6729.2		0.891 1020	1919.4		0.386 5355	832.3	
10.5	−0.308 0834	6711.3	−14161	+0.888 7675	1971.4	−4140	+0.385 5232	854.8	−1801
11.0	0.316 1260	6693.0		0.886 3708	2023.2		0.384 4840	877.2	
11.5	0.324 1464	6674.2	14084	0.883 9120	2074.7	4355	0.383 4179	899.7	1894
12.0	0.332 1439	6654.9		0.881 3915	2126.2		0.382 3248	922.1	
12.5	0.340 1181	6635.2	14002	0.878 8092	2177.6	4569	0.381 2049	944.4	1987
13.0	0.348 0684	6615.1		0.876 1654	2228.8		0.380 0583	966.6	
13.5	−0.355 9943	6594.7	−13916	+0.873 4602	2279.8	−4782	+0.378 8850	988.8	−2079
14.0	0.363 8955	6573.8		0.870 6939	2330.8		0.377 6852	1010.9	
14.5	0.371 7713	6552.4	13827	0.867 8664	2381.5	4993	0.376 4588	1033.0	2171
15.0	0.379 6211	6530.6		0.864 9782	2432.1		0.375 2061	1055.0	
15.5	0.387 4445	6508.3	13734	0.862 0293	2482.7	5203	0.373 9269	1076.9	2263
16.0	0.395 2409	6485.7		0.859 0197	2533.2		0.372 6215	1098.8	
16.5	−0.403 0099	6462.5	−13637	+0.855 9499	2583.3	−5412	+0.371 2899	1120.5	−2354
17.0	0.410 7507	6438.9		0.852 8199	2633.3		0.369 9322	1142.3	
17.5	0.418 4631	6415.0	13536	0.849 6300	2683.2	5619	0.368 5483	1164.0	2444
18.0	0.426 1464	6390.5		0.846 3802	2733.0		0.367 1385	1185.6	
18.5	0.433 8001	6365.6	13431	0.843 0708	2782.6	5825	0.365 7028	1207.2	2533
19.0	0.441 4237	6340.2		0.839 7020	2832.1		0.364 2413	1228.7	
19.5	−0.449 0165	6314.4	−13322	+0.836 2739	2881.4	−6029	+0.362 7540	1250.1	−2622
20.0	0.456 5782	6288.2		0.832 7866	2930.7		0.361 2410	1271.5	
20.5	0.464 1080	6261.4	13210	0.829 2403	2979.7	6231	0.359 7024	1292.7	2710
21.0	0.471 6054	6234.2		0.825 6355	3028.4		0.358 1385	1313.9	
21.5	0.479 0699	6206.5	13094	0.821 9722	3077.1	6431	0.356 5491	1335.1	2797
22.0	0.486 5009	6178.4		0.818 2505	3125.6		0.354 9344	1356.1	
22.5	−0.493 8979	6149.8	−12974	+0.814 4709	3173.8	−6630	+0.353 2944	1377.1	−2884
23.0	0.501 2603	6120.7		0.810 6334	3221.9		0.351 6295	1397.9	
23.5	0.508 5874	6091.1	12851	0.806 7384	3269.8	6827	0.349 9396	1418.7	2969
24.0	0.515 8787	6061.0		0.802 7860	3317.5		0.348 2247	1439.3	
24.5	0.523 1337	6030.5	12724	0.798 7766	3365.0	7022	0.346 4852	1459.9	3054
25.0	0.530 3517	5999.4		0.794 7102	3412.2		0.344 7210	1480.3	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Y	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)	Z	Stündliche Änderung (Einheit: 7. Dez.)	Reduktion auf 1925.0 (Einheit: 7. Dez.)
1919									
Juli 25.0	−0.530 3517	5999.4		+0.794 7102	3412.2		+0.344 7210	1480.3	
25.5	0.537 5322	5967.9	−12593	0.790 5874	3459.2	− 7215	0.342 9324	1500.7	−3138
26.0	0.544 6747	5936.0		0.786 4083	3505.9		0.341 1194	1520.9	
26.5	0.551 7785	5903.6	12459	0.782 1733	3552.4	7406	0.339 2822	1541.1	3221
27.0	0.558 8432	5870.7		0.777 8827	3598.5		0.337 4209	1561.1	
27.5	0.565 8681	5837.3	12321	0.773 5369	3644.5	7595	0.335 5357	1581.0	3303
28.0	−0.572 8527	5803.5		+0.769 1360	3690.2		+0.333 6266	1600.8	
28.5	0.579 7964	5769.3	−12180	0.764 6805	3735.5	− 7782	0.331 6938	1620.4	−3384
29.0	0.586 6989	5734.7		0.760 1709	3780.6		0.329 7376	1639.9	
29.5	0.593 5595	5699.6	12035	0.755 6072	3825.4	7967	0.327 7581	1659.3	3465
30.0	0.600 3777	5664.1		0.750 9900	3869.8		0.325 7553	1678.6	
30.5	0.607 1532	5628.2	11887	0.746 3198	3914.0	8149	0.323 7295	1697.7	3544
31.0	−0.613 8852	5591.8		+0.741 5966	3957.9		+0.321 6809	1716.7	
31.5	0.620 5735	5555.1	−11736	0.736 8210	4001.5	− 8328	0.319 6095	1735.6	−3622
Aug. 1.0	0.627 2174	5518.0		0.731 9932	4044.8		0.317 5156	1754.3	
1.5	0.633 8166	5480.5	11581	0.727 1136	4087.8	8505	0.315 3992	1772.9	3699
2.0	0.640 3705	5442.6		0.722 1827	4130.4		0.313 2607	1791.4	
2.5	0.646 8787	5404.4	11423	0.717 2008	4172.7	8680	0.311 1000	1809.8	3775
3.0	−0.653 3409	5365.8		+0.712 1684	4214.7		+0.308 9173	1828.0	
3.5	0.659 7565	5326.8	−11262	0.707 0857	4256.4	− 8853	0.306 7129	1846.0	−3850
4.0	0.666 1251	5287.5		0.701 9532	4297.8		0.304 4869	1864.0	
4.5	0.672 4463	5247.8	11097	0.696 7712	4338.9	9023	0.302 2393	1881.9	3924
5.0	0.678 7196	5207.7		0.691 5400	4379.7		0.299 9705	1899.5	
5.5	0.684 9447	5167.3	10929	0.686 2601	4420.2	9191	0.297 6805	1917.1	3997
6.0	−0.691 1209	5126.4		+0.680 9318	4460.3		+0.295 3696	1934.4	
6.5	0.697 2480	5085.3	−10758	0.675 5556	4500.0	− 9356	0.293 0379	1951.7	−4069
7.0	0.703 3256	5043.9		0.670 1319	4539.5		0.290 6855	1968.8	
7.5	0.709 3532	5002.1	10584	0.664 6610	4578.7	9518	0.288 3127	1985.9	4139
8.0	0.715 3305	4960.0		0.659 1432	4617.6		0.285 9194	2002.8	
8.5	0.721 2570	4917.6	10407	0.653 5790	4656.1	9677	0.283 5061	2019.5	4209
9.0	−0.727 1325	4874.8		+0.647 9687	4694.3		+0.281 0727	2036.1	
9.5	0.732 9564	4831.7	−10228	0.642 3127	4732.2	− 9834	0.278 6196	2052.5	−4277
10.0	0.738 7285	4788.3		0.636 6115	4769.7		0.276 1468	2068.8	
10.5	0.744 4483	4744.6	10045	0.630 8655	4806.9	9988	0.273 6545	2085.1	4344
11.0	0.750 1154	4700.6		0.625 0749	4844.0		0.271 1427	2101.1	
11.5	0.755 7295	4656.2	9860	0.619 2400	4880.6	10139	0.268 6119	2117.0	4409
12.0	−0.761 2901	4611.5		+0.613 3615	4916.9		+0.266 0619	2132.8	
12.5	0.766 7970	4566.6	− 9672	0.607 4395	4953.0	−10287	0.263 4932	2148.5	−4474
13.0	0.772 2497	4521.2		0.601 4744	4988.7		0.260 9056	2164.1	
13.5	0.777 6478	4475.6	9481	0.595 4667	5024.0	10432	0.258 2994	2179.4	4537
14.0	0.782 9910	4429.7		0.589 4168	5059.1		0.255 6750	2194.6	
14.5	0.788 2790	4383.5	9287	0.583 3250	5093.9	10574	0.253 0324	2209.7	4599

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
Aug. 14.5	−0.788 2790	4383.5	−9287	+0.583 3250	5093.9	−10574	+0.253 0324	2209.7	−4599
15.0	0.793 5112	4336.9		0.577 1916	5128.4		0.250 3717	2224.8	
15.5	0.798 6874	4290.0	9091	0.571 0170	5162.5	10714	0.247 6930	2239.6	4660
16.0	0.803 8070	4242.7		0.564 8016	5196.4		0.244 9967	2254.3	
16.5	0.808 8697	4195.1	8892	0.558 5457	5230.0	10851	0.242 2828	2268.8	4719
17.0	0.813 8751	4147.2		0.552 2498	5263.1		0.239 5516	2283.2	
17.5	−0.818 8228	4098.9	−8691	+0.545 9143	5296.0	−10984	+0.236 8031	2297.5	−4777
18.0	0.823 7124	4050.4		0.539 5396	5328.4		0.234 0376	2311.6	
18.5	0.828 5436	4001.5	8487	0.533 1262	5360.6	11114	0.231 2552	2325.6	4834
19.0	0.833 3159	3952.3		0.526 6743	5392.4		0.228 4562	2339.4	
19.5	0.838 0289	3902.6	8281	0.520 1843	5424.0	11241	0.225 6406	2353.1	4889
20.0	0.842 6821	3852.6		0.513 6569	5455.1		0.222 8089	2366.5	
20.5	−0.847 2751	3802.3	−8072	+0.507 0923	5485.8	−11365	+0.219 9611	2379.9	−4943
21.0	0.851 8076	3751.8		0.500 4912	5516.1		0.217 0973	2393.0	
21.5	0.856 2792	3700.8	7861	0.493 8538	5546.1	11486	0.214 2179	2405.9	4995
22.0	0.860 6894	3649.6		0.487 1809	5575.6		0.211 3231	2418.7	
22.5	0.865 0381	3598.1	7648	0.480 4726	5604.8	11603	0.208 4130	2431.3	5046
23.0	0.869 3247	3546.2		0.473 7296	5633.5		0.205 4880	2443.7	
23.5	−0.873 5489	3494.0	−7432	+0.466 9523	5661.9	−11717	+0.202 5481	2456.0	−5095
24.0	0.877 7102	3441.5		0.460 1413	5689.8		0.199 5936	2468.2	
24.5	0.881 8084	3388.7	7215	0.453 2970	5717.3	11828	0.196 6246	2480.1	5143
25.0	0.885 8430	3335.6		0.446 4199	5744.4		0.193 6415	2491.7	
25.5	0.889 8138	3282.3	6995	0.439 5107	5770.9	11935	0.190 6445	2503.2	5190
26.0	0.893 7205	3228.8		0.432 5698	5797.1		0.187 6338	2514.5	
26.5	−0.897 5627	3174.9	−6773	+0.425 5978	5822.9	−12039	+0.184 6097	2525.6	−5235
27.0	0.901 3401	3120.7		0.418 5951	5848.2		0.181 5723	2536.6	
27.5	0.905 0524	3066.4	6549	0.411 5624	5872.9	12139	0.178 5219	2547.3	5279
28.0	0.908 6994	3011.8		0.404 5002	5897.3		0.175 4588	2557.8	
28.5	0.912 2807	2957.0	6323	0.397 4091	5921.2	12236	0.172 3831	2568.3	5321
29.0	0.915 7962	2902.1		0.390 2894	5944.8		0.169 2950	2578.5	
29.5	−0.919 2456	2846.8	−6096	+0.383 1418	5967.8	−12329	+0.166 1948	2588.4	−5362
30.0	0.922 6284	2791.3		0.375 9668	5990.4		0.163 0828	2598.2	
30.5	0.925 9447	2735.7	5867	0.368 7650	6012.5	12419	0.159 9591	2607.8	5401
31.0	0.929 1940	2679.8		0.361 5369	6034.3		0.156 8241	2617.2	
31.5	0.932 3763	2623.9	5636	0.354 2829	6055.5	12505	0.153 6779	2626.4	5439
Sept. 1.0	0.935 4913	2567.7		0.347 0038	6076.3		0.150 5208	2635.4	
1.5	−0.938 5386	2511.2	−5404	+0.339 7000	6096.7	−12587	+0.147 3529	2644.3	−5474
2.0	0.941 5181	2454.6		0.332 3719	6116.7		0.144 1745	2652.9	
2.5	0.944 4296	2397.8	5170	0.325 0202	6136.1	12666	0.140 9859	2661.4	5508
3.0	0.947 2729	2341.0		0.317 6455	6155.1		0.137 7872	2669.7	
3.5	0.950 0479	2283.9	4935	0.310 2482	6173.6	12741	0.134 5787	2677.7	5541
4.0	0.952 7543	2226.8		0.302 8289	6191.8		0.131 3607	2685.6	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	*Y*	Stündliche Änderung	Reduktion auf 1925.0	*Z*	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
Sept. 4.0	−0.952 7543	2226.8		+0.302 8289	6191.8		+0.131 3607	2685.6	
4.5	0.955 3921	2169.4	−4698	0.295 3880	6209.5	−12813	0.128 1333	2693.3	−5572
5.0	0.957 9609	2111.9		0.287 9262	6226.8		0.124 8968	2700.8	
5.5	0.960 4606	2054.3	4460	0.280 4439	6243.6	12880	0.121 6515	2708.1	5601
6.0	0.962 8911	1996.5		0.272 9417	6259.9		0.118 3975	2715.3	
6.5	0.965 2521	1938.5	4220	0.265 4202	6275.9	12944	0.115 1349	2722.2	5629
7.0	−0.967 5435	1880.5		+0.257 8798	6291.4		+0.111 8642	2728.9	
7.5	0.969 7653	1822.4	−3980	0.250 3211	6306.5	−13004	0.108 5856	2735.5	−5655
8.0	0.971 9171	1764.0		0.242 7444	6321.2		0.105 2991	2741.9	
8.5	0.973 9989	1705.6	3738	0.235 1505	6335.3	13061	0.102 0051	2748.1	5680
9.0	0.976 0106	1647.2		0.227 5398	6349.1		0.098 7038	2754.1	
9.5	0.977 9521	1588.6	3495	0.219 9128	6362.5	13114	0.095 3953	2760.0	5703
10.0	−0.979 8231	1529.7		+0.212 2699	6375.6		+0.092 0799	2765.7	
10.5	0.981 6234	1470.8	−3250	0.204 6116	6388.1	−13163	0.088 7578	2771.1	−5725
11.0	0.983 3531	1411.9		0.196 9387	6400.1		0.085 4293	2776.3	
11.5	0.985 0118	1352.7	3005	0.189 2515	6411.9	13208	0.082 0946	2781.5	5745
12.0	0.986 5995	1293.4		0.181 5504	6423.2		0.078 7537	2786.4	
12.5	0.988 1159	1234.0	2760	0.173 8360	6434.1	13250	0.075 4072	2791.1	5763
13.0	−0.989 5610	1174.5		+0.166 1087	6444.6		+0.072 0550	2795.7	
13.5	0.990 9346	1114.8	−2513	0.158 3692	6454.6	−13287	0.068 6976	2800.1	−5779
14.0	0.992 2364	1054.9		0.150 6178	6464.2		0.065 3349	2804.3	
14.5	0.993 4663	994.9	2266	0.142 8553	6473.3	13321	0.061 9674	2808.2	5793
15.0	0.994 6242	934.9		0.135 0820	6482.0		0.058 5952	2812.0	
15.5	0.995 7100	874.7	2018	0.127 2986	6490.3	13351	0.055 2187	2815.6	5806
16.0	−0.996 7234	814.3		+0.119 5055	6498.2		+0.051 8379	2819.0	
16.5	0.997 6644	753.9	−1770	0.111 7032	6505.5	−13377	0.048 4531	2822.2	−5817
17.0	0.998 5327	693.3		0.103 8924	6512.5		0.045 0647	2825.2	
17.5	0.999 3282	632.5	1521	0.096 0735	6518.9	13399	0.041 6728	2827.9	5827
18.0	1.000 0507	571.7		0.088 2473	6524.7		0.038 2778	2830.4	
18.5	1.000 7002	510.8	1271	0.080 4143	6530.2	13417	0.034 8799	2832.7	5835
19.0	−1.001 2765	449.7		+0.072 5750	6535.2		+0.031 4793	2834.9	
19.5	1.001 7795	388.5	−1021	0.064 7301	6539.7	−13431	0.028 0762	2836.8	−5841
20.0	1.002 2090	327.3		0.056 8800	6543.7		0.024 6710	2838.5	
20.5	1.002 5651	266.0	771	0.049 0255	6547.0	13441	0.021 2640	2840.0	5846
21.0	1.002 8475	204.6		0.041 1673	6549.9		0.017 8552	2841.2	
21.5	1.003 0562	143.2	520	0.033 3058	6552.5	13448	0.014 4452	2842.2	5849
22.0	−1.003 1912	81.8		+0.025 4416	6554.5		+0.011 0339	2843.1	
22.5	1.003 2524	20.2	− 269	0.017 5753	6555.8	−13451	0.007 6218	2843.7	−5850
23.0	1.003 2397	41.3		0.009 7078	6556.7		0.004 2092	2844.0	
23.5	1.003 1533	102.9	− 18	+0.001 8394	6557.1	13450	+0.000 7963	2844.2	5849
24.0	1.002 9928	164.6		−0.006 0291	6557.0		−0.002 6167	2844.1	
24.5	1.002 7584	226.2	+ 233	0.013 8972	6556.3	13444	0.006 0294	2843.7	5847

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
Sept. 24.5	−1.002 7584	226.2	+ 233	−0.013 8972	6556.3	−13444	−0.006 0294	2843.7	−5847
25.0	1.002 4501	287.8		0.021 7641	6555.1		0.009 4416	2843.2	
25.5	1.002 0678	349.3	483	0.029 6294	6553.5	13435	0.012 8530	2842.4	5843
26.0	1.001 6117	410.9		0.037 4924	6551.3		0.016 2634	2841.5	
26.5	1.001 0816	472.5	733	0.045 3524	6548.6	13421	0.019 6726	2840.3	5837
27.0	1.000 4778	534.0		0.053 2089	6545.5		0.023 0801	2838.9	
27.5	−0.999 8000	595.5	+ 983	−0.061 0613	6541.8	−13403	−0.026 4860	2837.4	−5830
28.0	0.999 0486	657.0		0.068 9090	6537.6		0.029 8898	2835.5	
28.5	0.998 2233	718.4	1233	0.076 7513	6532.9	13382	0.033 2912	2833.4	5821
29.0	0.997 3245	779.7		0.084 5878	6527.7		0.036 6900	2831.2	
29.5	0.996 3520	841.0	1483	0.092 4176	6521.9	13357	0.040 0860	2828.7	5809
30.0	0.995 3061	902.2		0.100 2403	6515.8		0.043 4789	2826.1	
30.5	−0.994 1867	963.4	+1733	−0.108 0553	6509.1	−13328	−0.046 8685	2823.2	−5796
Okt. 1.0	0.992 9940	1024.5		0.115 8620	6501.9		0.050 2545	2820.1	
1.5	0.991 7280	1085.4	1982	0.123 6598	6494.3	13295	0.053 6367	2816.8	5781
2.0	0.990 3889	1146.4		0.131 4482	6486.2		0.057 0148	2813.3	
2.5	0.988 9766	1207.3	2230	0.139 2265	6477.6	13258	0.060 3886	2809.6	5765
3.0	0.987 4915	1268.0		0.146 9942	6468.5		0.063 7578	2805.7	
3.5	−0.985 9336	1328.6	+2477	−0.154 7507	6458.9	−13217	−0.067 1221	2801.6	−5748
4.0	0.984 3029	1389.2		0.162 4953	6448.8		0.070 4815	2797.2	
4.5	0.982 5996	1449.6	2723	0.170 2276	6438.3	13172	0.073 8354	2792.6	5729
5.0	0.980 8239	1509.9		0.177 9470	6427.3		0.077 1838	2787.9	
5.5	0.978 9759	1570.1	2968	0.185 6529	6415.9	13123	0.080 5264	2783.0	5708
6.0	0.977 0557	1630.2		0.193 3450	6404.1		0.083 8630	2777.9	
6.5	−0.975 0635	1690.2	+3213	−0.201 0225	6391.7	−13071	−0.087 1933	2772.6	−5685
7.0	0.972 9993	1750.0		0.208 6849	6378.9		0.090 5171	2767.1	
7.5	0.970 8636	1809.6	3458	0.216 3317	6365.7	13014	0.093 8342	2761.4	5660
8.0	0.968 6562	1869.1		0.223 9624	6352.1		0.097 1444	2755.5	
8.5	0.966 3776	1928.5	3701	0.231 5765	6338.0	12954	0.100 4474	2749.4	5634
9.0	0.964 0277	1987.9		0.239 1735	6323.5		0.103 7429	2743.1	
9.5	−0.961 6066	2047.2	+3943	−0.246 7527	6308.5	−12890	−0.107 0308	2736.6	−5606
10.0	0.959 1145	2106.3		0.254 3137	6293.2		0.110 3108	2730.0	
10.5	0.956 5514	2165.4	4183	0.261 8561	6277.4	12822	0.113 5828	2723.2	5577
11.0	0.953 9176	2224.3		0.269 3792	6261.1		0.116 8465	2716.2	
11.5	0.951 2131	2283.1	4423	0.276 8826	6244.4	12750	0.120 1017	2709.0	5545
12.0	0.948 4381	2341.9		0.284 3656	6227.3		0.123 3480	2701.5	
12.5	−0.945 5926	2400.5	+4661	−0.291 8279	6209.7	−12675	−0.126 5852	2693.9	−5512
13.0	0.942 6770	2458.9		0.299 2688	6191.6		0.129 8132	2686.1	
13.5	0.939 6912	2517.4	4898	0.306 6877	6173.1	12596	0.133 0317	2678.0	5477
14.0	0.936 6353	2575.7		0.314 0842	6154.3		0.136 2403	2669.7	
14.5	0.933 5096	2633.8	5133	0.321 4578	6134.9	12513	0.139 4390	2661.4	5441
15.0	0.930 3143	2691.8		0.328 8078	6115.0		0.142 6275	2652.8	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
Okt. 15.0	−0.930 3143	2691.8		−0.328 8078	6115.0		−0.142 6275	2652.8	
15.5	0.927 0494	2749.6	+5367	0.336 1337	6094.7	−12426	0.145 8056	2643.9	−5404
16.0	0.923 7152	2807.4		0.343 4348	6073.8		0.148 9729	2634.8	
16.5	0.920 3117	2865.0	5599	0.350 7106	6052.4	12335	0.152 1290	2625.6	5365
17.0	0.916 8393	2922.4		0.357 9605	6030.7		0.155 2739	2616.1	
17.5	0.913 2980	2979.7	5830	0.365 1840	6008.4	12241	0.158 4074	2606.3	5324
18.0	−0.909 6880	3036.9		−0.372 3805	5985.6		−0.161 5290	2596.4	
18.5	0.906 0096	3093.7	+6059	0.379 5493	5962.3	−12143	0.164 6387	2586.3	−5282
19.0	0.902 2632	3150.4		0.386 6899	5938.6		0.167 7360	2575.9	
19.5	0.898 4487	3207.0	6286	0.393 8017	5914.3	12041	0.170 8208	2565.4	5237
20.0	0.894 5664	3263.4		0.400 8841	5889.7		0.173 8928	2554.6	
20.5	0.890 6167	3319.4	6511	0.407 9367	5864.5	11936	0.176 9518	2543.7	5191
21.0	−0.886 5999	3375.2		−0.414 9587	5838.8		−0.179 9976	2532.5	
21.5	0.882 5162	3430.9	+6734	0.421 9496	5812.6	−11827	0.183 0298	2521.1	−5144
22.0	0.878 3658	3486.4		0.428 9087	5785.9		0.186 0482	2509.5	
22.5	0.874 1490	3541.5	6955	0.435 8355	5758.7	11715	0.189 0526	2497.7	5095
23.0	0.869 8663	3596.3		0.442 7295	5731.2		0.192 0427	2485.7	
23.5	0.865 5179	3651.0	7174	0.449 5901	5703.1	11599	0.195 0183	2473.5	5045
24.0	−0.861 1041	3705.3		−0.456 4167	5674.5		−0.197 9791	2461.2	
24.5	0.856 6252	3759.4	+7391	0.463 2088	5645.5	−11480	0.200 9250	2448.6	−4993
25.0	0.852 0816	3813.2		0.469 9658	5616.1		0.203 8556	2435.8	
25.5	0.847 4736	3866.8	7606	0.476 6872	5586.1	11357	0.206 7708	2422.8	4939
26.0	0.842 8015	3920.0		0.483 3723	5555.7		0.209 6702	2409.6	
26.5	0.838 0657	3972.8	7818	0.490 0208	5524.9	11231	0.212 5537	2396.2	4884
27.0	−0.833 2668	4025.4		−0.496 6319	5493.6		−0.215 4211	2382.7	
27.5	0.828 4049	4077.7	+8028	0.503 2053	5462.0	−11101	0.218 2721	2369.0	−4828
28.0	0.823 4804	4129.7		0.509 7405	5429.9		0.221 1066	2355.1	
28.5	0.818 4937	4181.3	8236	0.516 2369	5397.3	10968	0.223 9242	2340.9	4770
29.0	0.813 4453	4232.7		0.522 6939	5364.3		0.226 7247	2326.6	
29.5	0.808 3354	4283.7	8441	0.529 1111	5330.9	10832	0.229 5081	2312.2	4711
30.0	−0.803 1645	4334.4		−0.535 4880	5297.2		−0.232 2740	2297.6	
30.5	0.797 9330	4384.7	+8643	0.541 8241	5262.9	−10692	0.235 0223	2282.8	−4650
31.0	0.792 6414	4434.6		0.548 1188	5228.3		0.237 7526	2267.8	
31.5	0.787 2900	4484.3	8843	0.554 3718	5193.3	10550	0.240 4649	2252.7	4588
Nov. 1.0	0.781 8793	4533.6		0.560 5825	5157.9		0.243 1589	2237.3	
1.5	0.776 4095	4582.5	9040	0.566 7505	5122.0	10404	0.245 8344	2221.8	4524
2.0	−0.770 8814	4631.1		−0.572 8752	5085.8		−0.248 4911	2206.1	
2.5	0.765 2951	4679.3	+9234	0.578 9563	5049.3	−10255	0.251 1290	2190.3	−4459
3.0	0.759 6513	4727.1		0.584 9934	5012.4		0.253 7478	2174.3	
3.5	0.753 9501	4774.6	9426	0.590 9860	4975.1	10103	0.256 3473	2158.2	4393
4.0	0.748 1923	4821.7		0.596 9336	4937.5		0.258 9274	2142.0	
4.5	0.742 3781	4868.5	9615	0.602 8359	4899.5	9948	0.261 4879	2125.5	4326

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
Nov. 4.5	—0.742 3781	4868.5	+ 9615	—0.602 8359	4899.5	—9948	—0.261 4879	2125.5	—4326
5.0	0.736 5080	4914.9		0.608 6923	4861.2		0.264 0284	2108.8	
5.5	0.730 5824	4961.0	9801	0.614 5026	4822.6	9789	0.266 5489	2092.1	4257
6.0	0.724 6018	5006.7		0.620 2664	4783.6		0.269 0493	2075.2	
6.5	0.718 5665	5052.1	9984	0.625 9832	4744.3	9628	0.271 5294	2058.2	4187
7.0	0.712 4770	5097.1		0.631 6525	4704.6		0.273 9889	2041.0	
7.5	—0.706 3336	5141.8	+10164	—0.637 2741	4664.6	—9464	—0.276 4278	2023.7	—4115
8.0	0.700 1368	5186.2		0.642 8475	4624.3		0.278 8458	2006.2	
8.5	0.693 8869	5230.2	10341	0.648 3724	4583.7	9296	0.281 2427	1988.6	4043
9.0	0.687 5845	5273.8		0.653 8482	4542.6		0.283 6183	1970.7	
9.5	0.681 2299	5317.0	10514	0.659 2746	4501.3	9126	0.285 9724	1952.8	3969
10.0	0.674 8237	5360.0		0.664 6512	4459.5		0.288 3049	1934.7	
10.5	—0.668 3660	5402.7	+10685	—0.669 9774	4417.5	—8953	—0.290 6157	1916.5	—3894
11.0	0.661 8574	5444.9		0.675 2531	4375.2		0.292 9044	1898.0	
11.5	0.655 2983	5486.9	10852	0.680 4777	4332.4	8778	0.295 1709	1879.5	3818
12.0	0.648 6890	5528.5		0.685 6508	4289.3		0.297 4151	1860.8	
12.5	0.642 0301	5569.7	11016	0.690 7719	4245.8	8600	0.299 6367	1841.9	3741
13.0	0.635 3218	5610.6		0.695 8406	4202.0		0.301 8355	1822.9	
13.5	—0.628 5647	5651.0	+11176	—0.700 8566	4157.9	—8420	—0.304 0115	1803.7	—3662
14.0	0.621 7595	5691.0		0.705 8193	4113.4		0.306 1642	1784.3	
14.5	0.614 9064	5730.7	11333	0.710 7285	4068.4	8237	0.308 2937	1764.8	3583
15.0	0.608 0059	5770.0		0.715 5834	4023.1		0.310 3996	1745.1	
15.5	0.601 0586	5808.8	11487	0.720 3838	3977.5	8051	0.312 4819	1725.3	3502
16.0	0.594 0650	5847.2		0.725 1292	3931.5		0.314 5402	1705.3	
16.5	—0.587 0254	5885.3	+11637	—0.729 8193	3885.2	—7863	—0.316 5745	1685.1	—3420
17.0	0.579 9405	5922.8		0.734 4535	3838.5		0.318 5845	1664.9	
17.5	0.572 8108	5959.9	11784	0.739 0316	3791.6	7672	0.320 5702	1644.5	3337
18.0	0.565 6369	5996.6		0.743 5531	3744.2		0.322 5312	1623.9	
18.5	0.558 4192	6032.8	11927	0.748 0175	3696.5	7479	0.324 4675	1603.2	3253
19.0	0.551 1583	6068.5		0.752 4245	3648.5		0.326 3788	1582.3	
19.5	—0.543 8549	6103.8	+12066	—0.756 7737	3600.1	—7283	—0.328 2650	1561.3	—3168
20.0	0.536 5094	6138.6		0.761 0646	3551.4		0.330 1260	1540.3	
20.5	0.529 1225	6172.9	12202	0.765 2970	3502.5	7086	0.331 9616	1519.0	3082
21.0	0.521 6947	6206.7		0.769 4704	3453.2		0.333 7716	1497.6	
21.5	0.514 2265	6240.1	12334	0.773 5846	3403.7	6886	0.335 5559	1476.1	2995
22.0	0.506 7186	6273.0		0.777 6391	3353.8		0.337 3142	1454.5	
22.5	—0.499 1715	6305.3	+12462	—0.781 6336	3303.6	—6684	—0.339 0466	1432.7	—2908
23.0	0.491 5860	6337.2		0.785 5677	3253.2		0.340 7527	1410.8	
23.5	0.483 9625	6368.5	12586	0.789 4411	3202.4	6480	0.342 4325	1388.8	2819
24.0	0.476 3018	6399.3		0.793 2534	3151.4		0.344 0859	1366.8	
24.5	0.468 6044	6429.6	12706	0.797 0044	3100.2	6274	0.345 7128	1344.6	2729
25.0	0.460 8710	6459.4		0.800 6937	3048.7		0.347 3128	1322.2	

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	Y	Stündliche Änderung	Reduktion auf 1925.0	Z	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
Nov. 25.0	−0.460 8710	6459.4		−0.800 6937	3048.7		−0.347 3128	1322.2	
25.5	0.453 1021	6488.6	+12823	0.804 3211	2997.0	−6066	0.348 8860	1299.8	−2638
26.0	0.445 2985	6517.4		0.807 8863	2945.0		0.350 4322	1277.3	
26.5	0.437 4606	6545.6	12936	0.811 3889	2892.7	5856	0.351 9514	1254.6	2547
27.0	0.429 5892	6573.3		0.814 8287	2840.3		0.353 4433	1231.9	
27.5	0.421 6848	6600.5	13044	0.818 2055	2787.6	5645	0.354 9079	1209.1	2455
28.0	−0.413 7482	6627.1		−0.821 5189	2734.7		−0.356 3451	1186.2	
28.5	0.405 7800	6653.3	+13149	0.824 7687	2681.6	−5432	0.357 7548	1163.2	−2362
29.0	0.397 7806	6678.9		0.827 9547	2628.3		0.359 1367	1140.0	
29.5	0.389 7509	6703.9	13249	0.831 0765	2574.7	5217	0.360 4909	1116.9	2269
30.0	0.381 6915	6728.3		0.834 1340	2521.0		0.361 8173	1093.6	
30.5	0.373 6031	6752.3	13345	0.837 1269	2467.1	5000	0.363 1156	1070.2	2175
Dez. 1.0	−0.365 4862	6775.8		−0.840 0551	2413.1		−0.364 3859	1046.9	
1.5	0.357 3415	6798.6	+13437	0.842 9184	2358.9	−4782	0.365 6281	1023.4	−2080
2.0	0.349 1697	6821.0		0.845 7165	2304.6		0.366 8421	999.9	
2.5	0.340 9713	6842.9	13525	0.848 4494	2250.2	4563	0.368 0278	976.3	1984
3.0	0.332 7470	6864.2		0.851 1168	2195.5		0.369 1851	952.6	
3.5	0.324 4974	6885.0	13609	0.853 7185	2140.7	4342	0.370 3140	928.8	1888
4.0	−0.316 2232	6905.3		−0.856 2544	2085.8		−0.371 4143	905.1	
4.5	0.307 9249	6925.1	+13689	0.858 7244	2030.7	−4120	0.372 4861	881.2	−1791
5.0	0.299 6031	6944.4		0.861 1281	1975.5		0.373 5291	857.2	
5.5	0.291 2585	6963.2	13764	0.863 4656	1920.3	3896	0.374 5434	833.3	1694
6.0	0.282 8917	6981.5		0.865 7367	1864.9		0.375 5289	809.2	
6.5	0.274 5032	6999.2	13835	0.867 9412	1809.3	3671	0.376 4854	785.0	1596
7.0	−0.266 0937	7016.6		−0.870 0789	1753.5		−0.377 4130	760.9	
7.5	0.257 6636	7033.4	+13902	0.872 1496	1697.7	−3445	0.378 3116	736.7	−1498
8.0	0.249 2138	7049.6		0.874 1533	1641.8		0.379 1811	712.4	
8.5	0.240 7446	7065.5	13965	0.876 0898	1585.6	3218	0.380 0213	688.1	1399
9.0	0.232 2567	7080.9		0.877 9588	1529.4		0.380 8324	663.6	
9.5	0.223 7506	7095.7	14023	0.879 7603	1473.0	2990	0.381 6140	639.1	1300
10.0	−0.215 2271	7110.1		−0.881 4939	1416.4		−0.382 3662	614.6	
10.5	0.206 6866	7124.0	+14077	0.883 1596	1359.7	−2761	0.383 0889	589.9	−1201
11.0	0.198 1298	7137.3		0.884 7571	1302.8		0.383 7820	565.3	
11.5	0.189 5574	7150.0	14126	0.886 2864	1245.9	2532	0.384 4455	540.5	1101
12.0	0.180 9701	7162.2		0.887 7473	1188.9		0.385 0792	515.7	
12.5	0.172 3684	7174.0	14171	0.889 1397	1131.6	2301	0.385 6831	490.8	1001
13.0	−0.163 7528	7185.2		−0.890 4632	1074.2		−0.386 2571	465.9	
13.5	0.155 1241	7195.8	+14212	0.891 7178	1016.7	−2070	0.386 8013	440.9	−900
14.0	0.146 4830	7205.9		0.892 9032	959.0		0.387 3153	415.9	
14.5	0.137 8301	7215.5	14249	0.894 0194	901.3	1838	0.387 7994	390.8	799
15.0	0.129 1661	7224.4		0.895 0663	843.5		0.388 2532	365.7	
15.5	0.120 4917	7232.8	14281	0.896 0437	785.5	1606	0.388 6770	340.6	698

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1919.0								
	X	Stündliche Änderung	Reduktion auf 1925.0	*Y*	Stündliche Änderung	Reduktion auf 1925.0	*Z*	Stündliche Änderung	Reduktion auf 1925.0
		Einheit: 7. Dez.			Einheit: 7. Dez.			Einheit: 7. Dez.	
1919									
Dez. 15.5	−0.120 4917	7232.8	+14281	−0.896 0437	785.5	−1606	−0.388 6770	340.6	− 698
16.0	0.111 8077	7240.5		0.896 9515	727.5		0.389 0706	315.4	
16.5	0.103 1146	7247.8	14309	0.897 7896	669.3	1373	0.389 4339	290.0	597
17.0	0.094 4131	7254.6		0.898 5577	611.0		0.389 7667	264.7	
17.5	0.085 7039	7260.6	14332	0.899 2559	552.6	1140	0.390 0693	239.5	495
18.0	0.076 9879	7266.0		0.899 8840	494.2		0.390 3415	214.2	
18.5	−0.068 2656	7271.0	+14351	−0.900 4420	435.8	− 906	−0.390 5833	188.7	− 394
19.0	0.059 5377	7275.4		0.900 9299	377.3		0.390 7945	163.3	
19.5	0.050 8049	7279.1	14365	0.901 3475	318.8	672	0.390 9753	138.0	292
20.0	0.042 0681	7282.2		0.901 6949	260.2		0.391 1257	112.6	
20.5	0.033 3278	7284.8	14375	0.901 9719	201.5	438	0.391 2456	87.1	190
21.0	0.024 5849	7286.7		0.902 1784	142.7		0.391 3348	61.7	
21.5	−0.015 8400	7288.1	+14380	−0.902 3145	84.0	− 203	−0.391 3936	36.2	− 88
22.0	−0.007 0938	7288.8		0.902 3801	25.3		0.391 4217	10.7	
22.5	+0.001 6530	7289.0	14381	0.902 3753	33.4	+ 32	0.391 4193	14.7	+ 14
23.0	0.010 3996	7288.6		0.902 2999	92.2		0.391 3864	40.2	
23.5	0.019 1454	7287.5	14377	0.902 1541	150.9	266	0.391 3229	65.6	116
24.0	0.027 8894	7285.8		0.901 9377	209.7		0.391 2289	91.1	
24.5	+0.036 6312	7283.6	+14369	−0.901 6509	268.4	+ 501	−0.391 1043	116.5	+ 218
25.0	0.045 3699	7280.8		0.901 2936	327.0		0.390 9492	141.9	
25.5	0.054 1049	7277.4	14356	0.900 8660	385.7	735	0.390 7637	167.3	320
26.0	0.062 8354	7273.4		0.900 3680	444.3		0.390 5477	192.7	
26.5	0.071 5608	7268.8	14339	0.899 7997	502.8	969	0.390 3013	218.1	422
27.0	0.080 2802	7263.5		0.899 1612	561.3		0.390 0243	243.4	
27.5	+0.088 9930	7257.7	+14317	−0.898 4526	619.7	+1203	−0.389 7171	268.7	+ 523
28.0	0.097 6985	7251.3		0.897 6739	678.1		0.389 3795	294.0	
28.5	0.106 3960	7244.4	14291	0.896 8253	736.3	1436	0.389 0116	319.3	625
29.0	0.115 0848	7236.9		0.895 9068	794.5		0.388 6133	344.5	
29.5	0.123 7643	7228.8	14260	0.894 9185	852.5	1669	0.388 1849	369.6	726
30.0	0.132 4337	7220.2		0.893 8608	910.4		0.387 7264	394.7	
30.5	+0.141 0925	7211.0	+14225	−0.892 7335	968.3	+1901	−0.387 2377	419.8	+ 827
31.0	0.149 7398	7201.2		0.891 5369	1026.1		0.386 7190	444.8	
31.5	0.158 3752	7190.9	14186	0.890 2710	1083.7	2133	0.386 1703	469.8	928
32.0	0.166 9977			0.888 9360			0.385 5915		

Frühlingsäquinoktium . .	März	21	4^h
Sommersolstitium . . .	Juni	22	0
Herbstäquinoktium . . .	Sept.	23	14
Wintersolstitium . . .	Dez.	22	9
Perigäum	Jan.	2	20^h
Apogäum	Juli	2	22

Sonne 1919

Mittlere Zeit Greenwich	Aberration	Parallaxe	Mittlere Zeit Greenwich	Mittlere Länge $L_\odot$	Mittlere Anomalie $M_\odot$
1919			1919		
Jan. − 5.0	20.81	8.95	Jan. − 4.5	274°.6681	353°.12
+ 5.0	20.82	8.95	+ 5.5	284.5246	2.97
15.0	20.81	8.95	15.5	294.3810	12.83
25.0	20.79	8.94	25.5	304.2375	22.69
Febr. 4.0	20.76	8.93	Febr. 4.5	314.0940	32.54
14.0	20.73	8.91	14.5	323.9505	42.40
24.0	20.68	8.89	24.5	333.8069	52.26
März 6.0	20.63	8.87	März 6.5	343.6634	62.11
16.0	20.57	8.85	16.5	353.5199	71.97
26.0	20.52	8.82	26.5	3.3764	81.82
April 5.0	20.46	8.79	April 5.5	13.2328	91.68
15.0	20.40	8.77	15.5	23.0893	101.54
25.0	20.34	8.75	25.5	32.9458	111.39
Mai 5.0	20.29	8.72	Mai 5.5	42.8022	121.25
15.0	20.25	8.70	15.5	52.6587	131.10
25.0	20.21	8.69	25.5	62.5152	140.96
Juni 4.0	20.18	8.67	Juni 4.5	72.3717	150.82
14.0	20.15	8.66	14.5	82.2281	160.67
24.0	20.14	8.66	24.5	92.0846	170.53
Juli 4.0	20.13	8.66	Juli 4.5	101.9411	180.38
14.0	20.14	8.66	14.5	111.7976	190.24
24.0	20.15	8.66	24.5	121.6540	200.10
Aug. 3.0	20.17	8.67	Aug. 3.5	131.5105	209.95
13.0	20.21	8.69	13.5	141.3670	219.81
23.0	20.24	8.70	23.5	151.2235	229.66
Sept. 2.0	20.29	8.72	Sept. 2.5	161.0799	239.52
12.0	20.34	8.75	12.5	170.9364	249.38
22.0	20.40	8.77	22.5	180.7929	259.23
Okt. 2.0	20.46	8.79	Okt. 2.5	190.6493	269.09
12.0	20.52	8.82	12.5	200.5058	278.94
22.0	20.57	8.84	22.5	210.3623	288.80
Nov. 1.0	20.63	8.87	Nov. 1.5	220.2188	298.66
11.0	20.68	8.89	11.5	230.0752	308.51
21.0	20.72	8.91	21.5	239.9317	318.37
Dez. 1.0	20.76	8.93	Dez. 1.5	249.7882	328.22
11.0	20.79	8.94	11.5	259.6447	338.08
21.0	20.81	8.95	21.5	269.5011	347.94
31.0	20.82	8.95	31.5	279.3576	357.79

Phasen des Mondes

			h	m				h	m
Neumond	Jan.	1	20	24.1	Erstes Viertel	Juli	4	15	17.2
Erstes Viertel		8	22	55.2	Vollmond		12	18	2.2
Vollmond		15	20	44.4	Letztes Viertel		19	23	3.0
Letztes Viertel		23	16	22.0	Neumond		26	17	21.4
Neumond		31	11	7.0	Erstes Viertel	Aug.	3	8	11.5
Erstes Viertel	Febr.	7	6	52.3	Vollmond		11	5	39.5
Vollmond		14	11	38.2	Letztes Viertel		18	3	56.1
Letztes Viertel		22	13	47.7	Neumond		25	3	37.1
Neumond	März	1	23	11.4	Erstes Viertel	Sept.	2	2	21.9
Erstes Viertel		8	15	14.1	Vollmond		9	15	54.3
Vollmond		16	3	41.1	Letztes Viertel		16	9	31.7
Letztes Viertel		24	8	33.9	Neumond		23	16	33.9
Neumond		31	9	4.9	Erstes Viertel	Okt.	1	20	37.3
Erstes Viertel	April	7	0	38.8	Vollmond		9	1	38.6
Vollmond		14	20	25.1	Letztes Viertel		15	17	4.7
Letztes Viertel		22	23	21.1	Neumond		23	8	39.5
Neumond		29	17	30.4	Erstes Viertel		31	13	43.2
Erstes Viertel	Mai	6	11	33.9	Vollmond	Nov.	7	11	35.2
Vollmond		14	13	1.3	Letztes Viertel		14	3	40.5
Letztes Viertel		22	10	3.9	Neumond		22	3	19.7
Neumond		29	1	11.9	Erstes Viertel		30	4	46.9
Erstes Viertel	Juni	5	0	21.9	Vollmond	Dez.	6	22	3.5
Vollmond		13	4	28.2	Letztes Viertel		13	18	2.4
Letztes Viertel		20	17	32.9	Neumond		21	22	55.2
Neumond		27	8	52.6	Erstes Viertel		29	17	25.0

Mond im Perigäum

		h
Jan.	10	22.2
Febr.	4	14.9
März	4	2.7
April	1	9.0
April	29	19.3
Mai	28	5.4
Juni	25	10.4
Juli	23	2.4
Aug.	17	17.0
Sept.	12	20.1
Okt.	10	16.9
Nov.	8	1.9
Dez.	6	14.7

Mond im Apogäum

		h
Jan.	23	11.4
Febr.	20	7.9
März	20	0.6
April	16	8.5
Mai	13	10.2
Juni	9	18.5
Juli	7	9.4
Aug.	4	3.3
Aug.	31	22.3
Sept.	28	17.5
Okt.	26	8.7
Nov.	22	14.4
Dez.	19	15.6

Mond 1919

Mittlere Zeit Greenwich		Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1919		h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Jan.	0.5	17 32 33	54 49	−22 19.5	1 6.6	55 46.5	32.6	15 13.4	8.9	263.654	+0.972
	1.5	18 27 22	54 40	−21 12.9	2 14.6	56 19.1	32.4	15 22.3	8.9	276.382	+2.083
	2.5	19 22 2	53 52	−18 58.3	3 16.5	56 51.5	30.6	15 31.2	8.3	289.379	+3.107
	3.5	20 15 54	52 47	−15 41.8	4 8.1	57 22.1	27.7	15 39.5	7.5	302.636	+3.984
	4.5	21 8 41	51 50	−11 33.7	4 46.6	57 49.8	24.2	15 47.0	6.6	316.129	+4.655
	5.5	22 0 31	51 20	− 6 47.1	5 9.9	58 14.0	20.6	15 53.6	5.6	329.821	+5.072
	6.5	22 51 51	51 32	− 1 37.2	5 17.6	58 34.6	17.0	15 59.2	4.7	343.675	+5.199
	7.5	23 43 23	52 33	+ 3 40.4	5 8.5	58 51.6	13.5	16 3.9	3.7	357.653	+5.021
	8.5	0 35 56	54 17	+ 8 48.9	4 42.1	59 5.1	9.6	16 7.6	2.6	11.722	+4.542
	9.5	1 30 13	56 32	+13 31.0	3 57.9	59 14.7	5.1	16 10.2	1.4	25.854	+3.787
	10.5	2 26 45	58 51	+17 28.9	2 56.1	59 19.8	0.5	16 11.6	0.2	40.024	+2.798
	11.5	3 25 36	60 36	+20 25.0	1 40.0	59 19.3	7.3	16 11.4	2.0	54.204	+1.638
	12.5	4 26 12	61 9	+22 5.0	0 15.5	59 12.0	15.1	16 9.4	4.1	68.361	+0.380
	13.5	5 27 21	60 12	+22 20.5	1 8.7	58 56.9	23.1	16 5.3	6.3	82.452	−0.893
	14.5	6 27 33	57 57	+21 11.8	2 24.0	58 33.8	30.5	15 59.0	8.3	96.422	−2.099
	15.5	7 25 30	54 57	+18 47.8	3 23.9	58 3.3	36.3	15 50.7	9.9	110.215	−3.163
	16.5	8 20 27	51 50	+15 23.9	4 6.4	57 27.0	39.5	15 40.8	10.7	123.774	−4.028
	17.5	9 12 17	49 4	+11 17.5	4 31.8	56 47.5	39.9	15 30.1	10.9	137.053	−4.653
	18.5	10 1 21	46 58	+ 6 45.7	4 42.4	56 7.6	37.3	15 19.2	10.2	150.026	−5.022
	19.5	10 48 19	45 38	+ 2 3.3	4 40.9	55 30.3	31.9	15 9.0	8.7	162.689	−5.132
	20.5	11 33 57	45 5	− 2 37.6	4 29.4	54 58.4	24.5	15 0.3	6.6	175.064	−4.998
	21.5	12 19 2	45 19	− 7 7.0	4 9.4	54 33.9	15.2	14 53.7	4.2	187.194	−4.640
	22.5	13 4 21	46 13	−11 16.4	3 41.4	54 18.7	5.0	14 49.5	1.3	199.142	−4.083
	23.5	13 50 34	47 42	−14 57.8	3 5.6	54 13.7	5.6	14 48.2	1.5	210.986	−3.355
	24.5	14 38 16	49 34	−18 3.4	2 21.2	54 19.3	16.0	14 49.7	4.3	222.811	−2.485
	25.5	15 27 50	51 31	−20 24.6	1 28.4	54 35.3	25.5	14 54.0	7.0	234.707	−1.503
	26.5	16 19 21	53 15	−21 53.0	0 27.5	55 0.8	33.4	15 1.0	9.1	246.760	−0.442
	27.5	17 12 36	54 29	−22 20.5	0 39.1	55 34.2	39.1	15 10.1	10.6	259.051	+0.658
	28.5	18 7 5	54 59	−21 41.4	1 48.2	56 13.3	42.0	15 20.7	11.5	271.646	+1.749
	29.5	19 2 4	54 49	−19 53.2	2 54.5	56 55.3	41.6	15 32.2	11.3	284.589	+2.779
	30.5	19 56 53	54 11	−16 58.7	3 53.3	57 36.9	38.2	15 43.5	10.4	297.897	+3.685
	31.5	20 51 4	53 25	−13 5.4	4 39.8	58 15.1	31.7	15 53.9	8.7	311.554	+4.403
Febr.	1.5	21 44 29	52 52	− 8 25.6	5 10.5	58 46.8	23.4	16 2.6	6.4	325.509	+4.876
	2.5	22 37 21	52 48	− 3 15.1	5 23.5	59 10.2	14.2	16 9.0	3.8	339.688	+5.058
	3.5	23 30 9	53 23	+ 2 8.4	5 17.6	59 24.4	5.2	16 12.8	1.4	353.997	+4.928
	4.5	0 23 32	54 33	+ 7 26.0	4 52.8	59 29.6	2.7	16 14.2	0.7	8.346	+4.488
	5.5	1 18 5	56 12	+12 18.8	4 9.7	59 26.9	9.0	16 13.5	2.4	22.656	+3.768
	6.5	2 14 17	57 56	+16 28.5	3 10.4	59 17.9	13.8	16 11.1	3.8	36.873	+2.819
	7.5	3 12 13	59 16	+19 38.9	1 58.1	59 4.1	17.5	16 7.3	4.8	50.964	+1.705
	8.5	4 11 29	59 45	+21 37.0	0 38.1	58 46.6	20.4	16 2.5	5.5	64.917	+0.500
	9.5	5 11 14	59 4	+22 15.1	0 42.7	58 26.2	23.1	15 57.0	6.3	78.728	−0.722
	10.5	6 10 18		+21 32.4		58 3.1		15 50.7		92.398	−1.888

Tag	Obere Kulmination in Greenwich							0^h Länge, +50° Breite			
	AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1919	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Jan. 0	17 58 20	142	−21 56.8	+ 2.8	56.0	23 18.1	2.20	19 6	1.9	2 36	2.2
1	—	—	—	—	—	—	—	19 49	1.7	3 33	2.6
2	18 55 11	142	−20 12.8	+ 5.8	56.6	0 10.9	2.19	20 25	1.4	4 38	2.8
3	19 51 27	139	−17 18.6	+ 8.6	57.1	1 3.0	2.15	20 55	1.2	5 49	3.0
4	20 46 37	136	−13 23.6	+10.9	57.6	1 54.1	2.10	21 21	1.0	7 3	3.1
5	21 40 36	134	− 8 41.4	+12.5	58.1	2 44.0	2.06	21 45	1.0	8 18	3.1
6	22 33 48	133	− 3 28.0	+13.5	58.5	3 33.1	2.04	22 8	1.0	9 34	3.2
7	23 26 56	133	+ 1 59.6	+13.7	58.8	4 22.2	2.06	22 31	1.0	10 51	3.2
8	0 20 54	137	+ 7 23.4	+13.2	59.0	5 12.1	2.11	22 56	1.1	12 9	3.2
9	1 16 35	142	+12 24.6	+11.8	59.2	6 3.7	2.20	23 24	1.3	13 27	3.2
10	2 14 41	149	+16 43.5	+ 9.6	59.3	6 57.7	2.30	23 59	1.6	14 44	3.2
11	3 15 25	155	+20 0.0	+ 6.6	59.3	7 54.3	2.41	—	—	16 0	3.0
12	4 18 17	159	+21 56.7	+ 3.0	59.2	8 53.1	2.48	0 43	2.0	17 9	2.7
13	5 21 57	159	+22 22.6	− 0.9	59.0	9 52.7	2.47	1 36	2.4	18 8	2.2
14	6 24 43	154	+21 16.9	− 4.5	58.6	10 51.3	2.40	2 39	2.8	18 56	1.8
15	7 25 0	147	+18 49.4	− 7.6	58.1	11 47.5	2.28	3 49	3.0	19 34	1.4
16	8 21 57	138	+15 17.4	− 9.9	57.4	12 40.4	2.13	5 3	3.1	20 4	1.2
17	9 15 25	130	+11 1.1	−11.3	56.7	13 29.8	1.99	6 16	3.0	20 30	1.0
18	10 5 53	123	+ 6 19.2	−12.0	56.1	14 16.2	1.88	7 28	2.9	20 52	0.9
19	10 54 6	118	+ 1 27.8	−12.2	55.4	15 0.3	1.80	8 37	2.8	21 12	0.8
20	11 40 57	116	− 3 20.3	−11.8	54.9	15 43.1	1.77	9 44	2.8	21 31	0.8
21	12 27 21	116	− 7 54.7	−11.0	54.5	16 25.4	1.76	10 50	2.7	21 51	0.9
22	13 14 8	118	−12 6.4	− 9.9	54.3	17 8.2	1.80	11 55	2.7	22 13	1.0
23	14 2 5	122	−15 46.8	− 8.4	54.2	17 52.1	1.86	12 59	2.6	22 38	1.1
24	14 51 46	127	−18 47.2	− 6.5	54.4	18 37.7	1.95	14 2	2.6	23 7	1.3
25	15 43 33	132	−20 58.0	− 4.3	54.7	19 25.4	2.03	15 4	2.5	23 43	1.6
26	16 37 29	137	−22 9.7	− 1.6	55.2	20 15.2	2.12	16 3	2.3	—	—
27	17 33 11	141	−22 13.7	+ 1.3	55.8	21 6.8	2.18	16 56	2.1	0 26	2.0
28	18 29 58	143	−21 4.7	+ 4.4	56.5	21 59.5	2.21	17 42	1.8	1 19	2.4
29	19 26 58	142	−18 42.0	+ 7.4	57.2	22 52.5	2.20	18 22	1.5	2 21	2.7
30	20 23 30	140	−15 11.1	+10.1	57.9	23 44.9	2.17	18 55	1.3	3 30	3.0
31	—	—	—	—	—	—	—	19 24	1.1	4 44	3.1
Febr. 1	21 19 13	138	−10 43.2	+12.1	58.5	0 36.5	2.14	19 49	1.0	6 0	3.2
2	22 14 10	137	− 5 34.2	+13.5	59.0	1 27.4	2.11	20 13	1.0	7 18	3.3
3	23 8 47	137	− 0 2.7	+14.0	59.3	2 17.9	2.11	20 37	1.0	8 37	3.3
4	0 3 44	138	+ 5 30.7	+13.6	59.5	3 8.8	2.14	21 2	1.1	9 56	3.3
5	0 59 46	142	+10 45.2	+12.4	59.5	4 0.8	2.19	21 30	1.2	11 15	3.3
6	1 57 29	147	+15 20.2	+10.4	59.4	4 54.4	2.28	22 2	1.5	12 33	3.2
7	2 57 10	152	+18 56.5	+ 7.5	59.1	5 50.0	2.36	22 42	1.8	13 49	3.0
8	3 58 32	155	+21 18.0	+ 4.2	58.8	6 47.2	2.40	23 31	2.2	14 59	2.7
9	5 0 41	155	+22 14.3	+ 0.5	58.5	7 45.3	2.42	—	—	16 0	2.3
10	6 2 18	152	+21 42.8	− 3.1	58.1	8 42.8	2.37	0 29	2.6	16 51	1.9

Mond 1919

Mittlere Zeit Greenwich	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1919	h m s	m s	° '	° '	' "	"	' "	"	°	°
Febr. 10.5	6 10 18	57 19	+21 32.4	1 57.2	58 3.1	25.5	15 50.7	7.0	92.398	−1.888
11.5	7 7 37	54 50	+19 35.2	2 59.8	57 37.6	28.0	15 43.7	7.6	105.921	−2.932
12.5	8 2 27	52 9	+16 35.4	3 47.5	57 9.6	29.8	15 36.1	8.1	119.283	−3.799
13.5	8 54 36	49 38	+12 47.9	4 19.7	56 39.8	30.8	15 28.0	8.4	132.464	−4.449
14.5	9 44 14	47 38	+ 8 28.2	4 37.1	56 9.0	30.6	15 19.6	8.4	145.439	−4.855
15.5	10 31 52	46 15	+ 3 51.1	4 41.4	55 38.4	28.6	15 11.2	7.8	158.190	−5.010
16.5	11 18 7	45 32	− 0 50.3	4 34.2	55 9.8	24.9	15 3.4	6.8	170.706	−4.918
17.5	12 3 39	45 30	− 5 24.5	4 17.3	54 44.9	19.2	14 56.6	5.2	182.993	−4.598
18.5	12 49 9	46 4	− 9 41.8	3 51.5	54 25.7	11.9	14 51.4	3.2	195.078	−4.073
19.5	13 35 13	47 10	−13 33.3	3 17.7	54 13.8	3.1	14 48.2	0.9	207.004	−3.376
20.5	14 22 23	48 37	−16 51.0	2 35.9	54 10.7	6.7	14 47.3	1.9	218.831	−2.536
21.5	15 11 0	50 16	−19 26.9	1 46.6	54 17.4	17.0	14 49.2	4.6	230.637	−1.588
22.5	16 1 16	51 51	−21 13.5	0 50.1	54 34.4	27.3	14 53.8	7.4	242.506	−0.566
23.5	16 53 7	53 8	−22 3.6	0 12.2	55 1.7	36.7	15 1.2	10.0	254.533	+0.496
24.5	17 46 15	53 58	−21 51.4	1 18.1	55 38.4	44.5	15 11.2	12.2	266.809	+1.555
25.5	18 40 13	54 17	−20 33.3	2 24.1	56 22.9	49.6	15 23.4	13.5	279.418	+2.565
26.5	19 34 30	54 13	−18 9.2	3 26.3	57 12.5	51.3	15 36.9	14.0	292.428	+3.474
27.5	20 28 43	53 58	−14 42.9	4 19.9	58 3.8	48.7	15 50.9	13.2	305.879	+4.222
28.5	21 22 41	53 49	−10 23.0	5 0.7	58 52.5	41.5	16 4.1	11.3	319.770	+4.746
März 1.5	22 16 30	54 3	− 5 22.3	5 24.5	59 34.0	30.2	16 15.4	8.3	334.056	+4.992
2.5	23 10 33	54 44	+ 0 2.2	5 28.1	60 4.2	16.5	16 23.7	4.5	348.644	+4.921
3.5	0 5 17	55 57	+ 5 30.3	5 10.0	60 20.7	1.7	16 28.2	0.4	3.406	+4.524
4.5	1 1 14	57 29	+10 40.3	4 30.4	60 22.4	11.8	16 28.6	3.2	18.203	+3.822
5.5	1 58 43	59 0	+15 10.7	3 31.6	60 10.6	22.8	16 25.4	6.2	32.905	+2.869
6.5	2 57 43	60 4	+18 42.3	2 18.3	59 47.8	30.3	16 19.2	8.3	47.414	+1.739
7.5	3 57 47	60 12	+21 0.6	0 57.4	59 17.5	34.7	16 10.9	9.4	61.668	+0.518
8.5	4 57 59	59 13	+21 58.0	0 23.9	58 42.8	36.1	16 1.5	9.9	75.644	−0.713
9.5	5 57 12	57 14	+21 34.1	1 38.4	58 6.7	35.7	15 51.6	9.7	89.347	−1.879
10.5	6 54 26	54 40	+19 55.7	2 41.4	57 31.0	34.1	15 41.9	9.3	102.796	−2.917
11.5	7 49 6	51 57	+17 14.3	3 30.5	56 56.9	31.9	15 32.6	8.7	116.016	−3.780
12.5	8 41 3	49 30	+13 43.8	4 5.4	56 25.0	29.5	15 23.9	8.0	129.028	−4.430
13.5	9 30 33	47 33	+ 9 38.4	4 26.8	55 55.5	27.1	15 15.9	7.4	141.851	−4.845
14.5	10 18 6	46 13	+ 5 11.6	4 35.6	55 28.4	24.5	15 8.5	6.7	154.491	−5.014
15.5	11 4 19	45 31	+ 0 36.0	4 33.2	55 3.9	21.4	15 1.8	5.8	166.954	−4.941
16.5	11 49 50	45 28	− 3 57.2	4 20.5	54 42.5	17.6	14 56.0	4.8	179.244	−4.637
17.5	12 35 18	45 57	− 8 17.7	3 58.2	54 24.9	12.9	14 51.2	3.5	191.372	−4.125
18.5	13 21 15	46 53	−12 15.9	3 27.0	54 12.0	7.1	14 47.7	2.0	203.354	−3.434
19.5	14 8 8	48 8	−15 42.9	2 47.7	54 4.9	0.1	14 45.7	0.0	215.224	−2.598
20.5	14 56 16	49 30	−18 30.6	2 0.6	54 4.8	8.0	14 45.7	2.2	227.026	−1.651
21.5	15 45 46	50 49	−20 31.2	1 7.1	54 12.8	17.2	14 47.9	4.7	238.820	−0.632
22.5	16 36 35	51 53	−21 38.3	0 8.3	54 30.0	26.7	14 52.6	7.3	250.677	+0.423
23.5	17 28 28		−21 46.6		54 56.7		14 59.9		262.681	+1.472

Tag	Obere Kulmination in Greenwich							0h Länge, +50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1919	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Febr. 10	6 2 18	152	+21 42.8	− 3.1	58.1	8 42.8	2.37	0 29	2.6	16 51	1.9
11	7 2 5	146	+19 49.8	− 6.2	57.7	9 38.5	2.27	1 35	2.9	17 32	1.5
12	7 59 10	139	+16 48.0	− 8.8	57.2	10 31.5	2.15	2 46	3.0	18 5	1.2
13	8 53 14	132	+12 54.4	−10.6	56.7	11 21.5	2.02	3 58	3.0	18 32	1.0
14	9 44 32	125	+ 8 26.5	−11.6	56.1	12 8.7	1.92	5 9	2.9	18 55	0.9
15	10 33 37	120	+ 3 40.6	−12.1	55.6	12 53.7	1.83	6 19	2.9	19 16	0.8
16	11 21 12	118	− 1 9.1	−12.0	55.1	13 37.3	1.79	7 27	2.8	19 36	0.8
17	12 8 4	117	− 5 50.4	−11.4	54.7	14 20.1	1.78	8 34	2.7	19 56	0.8
18	12 54 58	118	−10 12.8	−10.4	54.4	15 2.9	1.79	9 39	2.7	20 17	0.9
19	13 42 33	120	−14 6.9	− 9.0	54.2	15 46.4	1.84	10 44	2.7	20 40	1.1
20	14 31 25	124	−17 23.8	− 7.3	54.2	16 31.2	1.90	11 48	2.6	21 8	1.3
21	15 21 57	129	−19 54.9	− 5.2	54.3	17 17.7	1.97	12 50	2.5	21 41	1.5
22	16 14 18	133	−21 31.8	− 2.8	54.7	18 6.0	2.05	13 49	2.4	22 20	1.8
23	17 8 21	137	−22 6.7	− 0.1	55.2	18 55.9	2.11	14 44	2.2	23 8	2.2
24	18 3 42	140	−21 33.4	+ 2.9	55.9	19 47.2	2.16	15 33	1.9	—	—
25	18 59 47	141	−19 48.9	+ 5.8	56.7	20 39.2	2.18	16 15	1.6	0 4	2.5
26	19 56 2	140	−16 54.4	+ 8.7	57.5	21 31.4	2.17	16 51	1.4	1 8	2.8
27	20 52 6	140	−12 56.3	+11.1	58.4	22 23.3	2.16	17 22	1.2	2 19	3.1
28	21 47 55	139	− 8 6.1	+13.0	59.2	23 15.1	2.15	17 49	1.1	3 35	3.2
März 1	—	—	—	—	—	—	—	18 14	1.0	4 53	3.3
2	22 43 44	140	− 2 40.3	+14.0	59.8	0 6.8	2.16	18 39	1.0	6 13	3.4
3	23 40 2	142	+ 3 0.6	+14.2	60.2	0 59.0	2.19	19 4	1.1	7 35	3.4
4	0 37 27	145	+ 8 33.1	+13.3	60.4	1 52.3	2.25	19 32	1.2	8 56	3.4
5	1 36 27	150	+13 32.9	+11.5	60.3	2 47.3	2.33	20 4	1.5	10 17	3.3
6	2 37 14	154	+17 37.1	+ 8.7	59.9	3 43.9	2.40	20 43	1.8	11 36	3.2
7	3 39 27	157	+20 26.9	+ 5.3	59.5	4 42.1	2.44	21 30	2.1	12 50	2.9
8	4 42 10	156	+21 50.9	+ 1.6	58.9	5 40.7	2.44	22 25	2.5	13 54	2.5
9	5 44 7	153	+21 46.2	− 2.0	58.2	6 38.5	2.38	23 29	2.8	14 48	2.0
10	6 44 3	147	+20 19.0	− 5.2	57.6	7 34.4	2.27	—	—	15 31	1.6
11	7 41 12	139	+17 41.6	− 7.8	57.0	8 27.4	2.15	0 37	2.9	16 6	1.3
12	8 35 19	132	+14 9.6	− 9.7	56.5	9 17.5	2.02	1 47	2.9	16 35	1.1
13	9 26 40	125	+ 9 59.0	−11.0	56.0	10 4.7	1.92	2 57	2.9	16 59	0.9
14	10 15 49	121	+ 5 24.9	−11.7	55.5	10 49.8	1.85	4 6	2.8	17 20	0.9
15	11 3 28	118	+ 0 41.1	−11.9	55.1	11 33.4	1.79	5 14	2.8	17 41	0.9
16	11 50 21	117	− 4 0.2	−11.5	54.7	12 16.2	1.78	6 20	2.7	18 1	0.9
17	12 37 10	118	− 8 27.9	−10.7	54.4	12 59.0	1.78	7 26	2.7	18 22	0.9
18	13 24 32	120	−12 31.7	− 9.5	54.2	13 42.3	1.82	8 31	2.7	18 45	1.0
19	14 12 58	123	−16 1.9	− 7.9	54.1	14 26.7	1.88	9 35	2.7	19 11	1.2
20	15 2 48	127	−18 49.6	− 6.0	54.1	15 12.4	1.94	10 38	2.6	19 42	1.4
21	15 54 9	130	−20 46.3	− 3.7	54.3	15 59.7	2.00	11 38	2.4	20 18	1.7
22	16 46 54	133	−21 44.8	− 1.1	54.6	16 48.4	2.05	12 34	2.2	21 2	2.0
23	17 40 46	136	−21 39.6	+ 1.6	55.1	17 38.2	2.09	13 24	2.0	21 54	2.3

Mond 1919

Mittlere Zeit Greenwich	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1919	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
März 23.5	17 28 28	52 35	−21 46.6	0 53.6	54 56.7	36.3	14 59.9	9.9	262.681	+1.472
24.5	18 21 3	52 53	−20 53.0	1 56.2	55 33.0	45.1	15 9.8	12.2	274.919	+2.476
25.5	19 13 56	52 56	−18 56.8	2 56.6	56 18.1	52.1	15 22.0	14.3	287.480	+3.387
26.5	20 6 52	52 55	−16 0.2	3 51.6	57 10.2	56.3	15 36.3	15.3	300.443	+4.155
27.5	20 59 47	53 4	−12 8.6	4 37.8	58 6.5	56.2	15 51.6	15.3	313.866	+4.725
28.5	21 52 51	53 36	− 7 30.8	5 10.9	59 2.7	51.1	16 6.9	13.9	327.775	+5.041
29.5	22 46 27	54 40	− 2 19.9	5 27.0	59 53.8	40.5	16 20.8	11.1	342.148	+5.055
30.5	23 41 7	56 19	+ 3 7.1	5 21.9	60 34.3	25.2	16 31.9	6.8	356.909	+4.738
31.5	0 37 26	58 20	+ 8 29.0	4 53.2	60 59.5	7.0	16 38.7	1.9	11.932	+4.092
April 1.5	1 35 46	60 23	+13 22.2	4 0.7	61 6.5	11.4	16 40.6	3.1	27.058	+3.155
2.5	2 36 9	61 53	+17 22.9	2 48.6	60 55.1	27.6	16 37.5	7.5	42.121	+1.999
3.5	3 38 2	62 17	+20 11.5	1 24.3	60 27.5	39.5	16 30.0	10.8	56.980	+0.719
4.5	4 40 19	61 15	+21 35.8	0 2.2	59 48.0	46.6	16 19.2	12.7	71.529	−0.584
5.5	5 41 34	58 59	+21 33.6	1 21.9	59 1.4	49.2	16 6.5	13.4	85.714	−1.821
6.5	6 40 33	55 56	+20 11.7	2 28.4	58 12.2	48.0	15 53.1	13.0	99.520	−2.919
7.5	7 36 29	52 45	+17 43.3	3 19.8	57 24.2	44.3	15 40.1	12.1	112.963	−3.825
8.5	8 29 14	49 53	+14 23.5	3 56.1	56 39.9	39.2	15 28.0	10.7	126.079	−4.506
9.5	9 19 7	47 37	+10 27.4	4 18.8	56 0.7	33.5	15 17.3	9.1	138.910	−4.945
10.5	10 6 44	46 5	+ 6 8.6	4 29.6	55 27.2	27.8	15 8.2	7.6	151.499	−5.134
11.5	10 52 49	45 16	+ 1 39.0	4 29.8	54 59.4	22.3	15 0.6	6.1	163.885	−5.079
12.5	11 38 5	45 9	− 2 50.8	4 20.4	54 37.1	17.0	14 54.5	4.6	176.103	−4.791
13.5	12 23 14	45 37	− 7 11.2	4 1.6	54 20.1	12.2	14 49.9	3.3	188.181	−4.291
14.5	13 8 51	46 35	−11 12.8	3 33.7	54 7.9	7.1	14 46.6	2.0	200.144	−3.605
15.5	13 55 26	47 49	−14 46.5	2 57.0	54 0.8	2.0	14 44.6	0.5	212.021	−2.766
16.5	14 43 15	49 11	−17 43.5	2 12.2	53 58.8	3.8	14 44.1	1.0	223.839	−1.809
17.5	15 32 26	50 24	−19 55.7	1 20.4	54 2.6	10.2	14 45.1	2.8	235.637	−0.774
18.5	16 22 50	51 20	−21 16.1	0 23.4	54 12.8	17.3	14 47.9	4.7	247.458	+0.299
19.5	17 14 10	51 49	−21 39.5	0 36.5	54 30.1	25.3	14 52.6	6.9	259.358	+1.369
20.5	18 5 59	51 54	−21 3.0	1 36.5	54 55.4	33.5	14 59.5	9.1	271.399	+2.391
21.5	18 57 53	51 41	−19 26.5	2 34.2	55 28.9	41.7	15 8.6	11.4	283.653	+3.324
22.5	19 49 34	51 26	−16 52.3	3 27.2	56 10.6	49.0	15 20.0	13.4	296.195	+4.120
23.5	20 41 0	51 24	−13 25.1	4 13.1	56 59.6	54.5	15 33.4	14.8	309.098	+4.734
24.5	21 32 24	51 48	− 9 12.0	4 49.3	57 54.1	56.7	15 48.2	15.5	322.424	+5.117
25.5	22 24 12	52 52	− 4 22.7	5 12.7	58 50.8	54.6	16 3.7	14.8	336.211	+5.223
26.5	23 17 4	54 39	+ 0 50.0	5 19.3	59 45.4	46.9	16 18.5	12.8	350.462	+5.017
27.5	0 11 43	57 4	+ 6 9.3	5 4.8	60 32.3	33.9	16 31.3	9.2	5.136	+4.483
28.5	1 8 47	59 52	+11 14.1	4 26.3	61 6.2	16.0	16 40.5	4.4	20.137	+3.632
29.5	2 8 39	62 24	+15 40.4	3 23.6	61 22.2	3.9	16 44.9	1.0	35.328	+2.516
30.5	3 11 3	63 56	+19 4.0	2 1.8	61 18.3	23.3	16 43.9	6.4	50.544	+1.218
Mai 1.5	4 14 59	63 49	+21 5.8	0 30.8	60 55.0	39.3	16 37.5	10.7	65.623	−0.157
2.5	5 18 48	61 56	+21 36.6	0 57.5	60 15.7	50.2	16 26.8	13.7	80.426	−1.497
3.5	6 20 44		+20 39.1		59 25.5		16 13.1		94.856	−2.709

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1919	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
März 23	17 40 46	136	−21 39.6	+ 1.6	55.1	17 38.2	2.09	13 24	2.0	21 54	2.3
24	18 35 18	137	−20 27.8	+ 4.4	55.7	18 28.6	2.11	14 8	1.7	22 53	2.6
25	19 30 5	137	−18 9.1	+ 7.1	56.6	19 19.3	2.11	14 46	1.5	23 59	2.9
26	20 24 52	137	−14 47.2	+ 9.6	57.5	20 10.0	2.11	15 18	1.3	—	—
27	21 19 40	137	−10 29.1	+11.8	58.5	21 0.8	2.12	15 47	1.1	1 10	3.1
28	22 14 47	139	− 5 26.2	+13.3	59.4	21 51.8	2.14	16 13	1.0	2 25	3.2
29	23 10 43	141	+ 0 5.4	+14.1	60.2	22 43.6	2.19	16 38	1.0	3 43	3.3
30	0 8 8	146	+ 5 45.0	+14.0	60.8	23 37.0	2.26	17 3	1.1	5 4	3.4
31	—	—	—	—	—	—	—	17 31	1.2	6 27	3.5
April 1	1 7 38	152	+11 7.3	+12.7	61.1	0 32.4	2.36	18 2	1.4	7 50	3.5
2	2 9 30	157	+15 45.5	+10.3	61.0	1 30.1	2.45	18 39	1.7	9 13	3.4
3	3 13 25	162	+19 14.3	+ 7.0	60.7	2 29.9	2.52	19 24	2.1	10 32	3.1
4	4 18 20	162	+21 15.9	+ 3.1	60.1	3 30.8	2.53	20 19	2.4	11 43	2.7
5	5 22 40	159	+21 43.3	− 0.8	59.3	4 31.0	2.48	21 21	2.7	12 42	2.2
6	6 24 49	152	+20 41.2	− 4.3	58.4	5 29.0	2.36	22 29	2.9	13 29	1.8
7	7 23 43	143	+18 23.1	− 7.1	57.6	6 23.8	2.21	23 40	3.0	14 7	1.4
8	8 19 2	134	+15 6.3	− 9.2	56.8	7 15.1	2.06	—	—	14 38	1.2
9	9 11 5	127	+11 8.1	−10.6	56.1	8 3.0	1.94	0 50	2.9	15 4	1.0
10	10 0 30	121	+ 6 43.9	−11.4	55.5	8 48.4	1.84	1 58	2.8	15 26	0.9
11	10 48 7	118	+ 2 6.9	−11.6	55.0	9 31.9	1.79	3 5	2.8	15 47	0.8
12	11 34 47	116	− 2 31.3	−11.5	54.6	10 14.5	1.76	4 11	2.7	16 7	0.8
13	12 21 15	117	− 7 0.1	−10.9	54.3	10 57.0	1.77	5 17	2.7	16 28	0.9
14	13 8 13	118	−11 9.6	− 9.9	54.1	11 39.9	1.81	6 21	2.7	16 50	1.0
15	13 56 12	122	−14 49.7	− 8.4	54.0	12 23.8	1.86	7 25	2.7	17 15	1.1
16	14 45 35	125	−17 50.9	− 6.6	54.0	13 9.1	1.92	8 28	2.6	17 44	1.3
17	15 36 26	129	−20 4.2	− 4.4	54.1	13 55.9	1.98	9 29	2.5	18 19	1.6
18	16 28 39	132	−21 21.7	− 2.0	54.2	14 44.0	2.03	10 26	2.3	19 0	1.9
19	17 21 49	134	−21 37.9	+ 0.7	54.6	15 33.1	2.06	11 18	2.1	19 48	2.2
20	18 15 28	134	−20 49.9	+ 3.3	55.0	16 22.7	2.07	12 4	1.8	20 44	2.5
21	19 9 7	134	−18 57.8	+ 6.0	55.6	17 12.3	2.06	12 43	1.5	21 47	2.7
22	20 2 30	133	−16 5.0	+ 8.4	56.4	18 1.6	2.04	13 17	1.3	22 54	2.9
23	20 55 39	133	−12 17.2	+10.5	57.2	18 50.6	2.05	13 46	1.1	—	—
24	21 48 52	134	− 7 43.0	+12.2	58.2	19 39.8	2.06	14 12	1.0	0 4	3.0
25	22 42 45	136	− 2 33.9	+13.4	59.2	20 29.6	2.10	14 37	1.0	1 18	3.2
26	23 38 6	141	+ 2 54.7	+13.8	60.1	21 20.8	2.18	15 1	1.0	2 35	3.3
27	0 35 44	148	+ 8 22.5	+13.3	60.8	22 14.4	2.29	15 27	1.1	3 55	3.4
28	1 36 20	156	+13 24.5	+11.7	61.3	23 10.9	2.42	15 56	1.3	5 17	3.5
29	—	—	—	—	—	—	—	16 31	1.6	6 41	3.5
30	2 40 2	163	+17 32.9	+ 8.9	61.4	0 10.5	2.54	17 13	1.9	8 4	3.4
Mai 1	3 46 8	167	+20 22.0	+ 5.1	61.1	1 12.5	2.61	18 5	2.3	9 21	3.0
2	4 53 1	166	+21 35.1	+ 1.0	60.6	2 15.2	2.60	19 6	2.7	10 28	2.5
3	5 58 32	161	+21 9.6	− 3.0	59.7	3 16.7	2.51	20 15	3.0	11 22	2.0

Mittlere Zeit Greenwich	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1919	h m s	m s	° '	° '	' "	"	' "	"	°	°
Mai 3.5	6 20 44	58 47	+20 39.1	2 13.1	59 25.5	55.6	16 13.1	15.1	94.856	−2.709
4.5	7 19 31	55 7	+18 26.0	3 11.3	58 29.9	55.8	15 58.0	15.2	108.863	−3.722
5.5	8 14 38	51 37	+15 14.7	3 51.8	57 34.1	52.2	15 42.8	14.3	122.438	−4.493
6.5	9 6 15	48 43	+11 22.9	4 16.5	56 41.9	46.1	15 28.5	12.5	135.607	−5.001
7.5	9 54 58	46 40	+ 7 6.4	4 28.4	55 55.8	38.5	15 16.0	10.5	148.414	−5.243
8.5	10 41 38	45 25	+ 2 38.0	4 29.6	55 17.3	30.5	15 5.5	8.3	160.915	−5.230
9.5	11 27 3	45 1	− 1 51.6	4 21.5	54 46.8	22.6	14 57.2	6.2	173.172	−4.976
10.5	12 12 4	45 18	− 6 13.1	4 4.7	54 24.2	15.2	14 51.0	4.1	185.243	−4.505
11.5	12 57 22	46 10	−10 17.8	3 39.5	54 9.0	8.5	14 46.9	2.3	197.180	−3.842
12.5	13 43 32	47 27	−13 57.3	3 5.5	54 0.5	2.4	14 44.6	0.7	209.033	−3.017
13.5	14 30 59	48 54	−17 2.8	2 23.2	53 58.1	3.0	14 43.9	0.8	220.844	−2.066
14.5	15 19 53	50 16	−19 26.0	1 33.1	54 1.1	8.3	14 44.7	2.3	232.653	−1.025
15.5	16 10 9	51 18	−20 59.1	0 37.1	54 9.4	13.4	14 47.0	3.6	244.495	+0.064
16.5	17 1 27	51 50	−21 36.2	0 22.5	54 22.8	18.7	14 50.6	5.1	256.408	+1.158
17.5	17 53 17	51 48	−21 13.7	1 22.2	54 41.5	24.4	14 55.7	6.7	268.432	+2.210
18.5	18 45 5	51 22	−19 51.5	2 19.5	55 5.9	30.4	15 2.4	8.2	280.609	+3.177
19.5	19 36 27	50 46	−17 32.0	3 11.4	55 36.3	36.5	15 10.6	10.0	292.986	+4.011
20.5	20 27 13	50 17	−14 20.6	3 56.0	56 12.8	42.4	15 20.6	11.6	305.614	+4.670
21.5	21 17 30	50 13	−10 24.6	4 31.7	56 55.2	47.2	15 32.2	12.8	318.543	+5.110
22.5	22 7 43	50 48	− 5 52.9	4 56.5	57 42.4	50.0	15 45.0	13.7	331.820	+5.294
23.5	22 58 31	52 10	− 0 56.4	5 8.2	58 32.4	49.8	15 58.7	13.5	345.480	+5.189
24.5	23 50 41	54 22	+ 4 11.8	5 3.1	59 22.2	45.3	16 12.2	12.4	359.535	+4.776
25.5	0 45 3	57 16	+ 9 14.9	4 37.8	60 7.5	35.9	16 24.6	9.7	13.971	+4.055
26.5	1 42 19	60 26	+13 52.7	3 49.7	60 43.4	21.6	16 34.3	5.9	28.731	+3.053
27.5	2 42 45	63 9	+17 42.4	2 39.0	61 5.0	4.1	16 40.2	1.1	43.721	+1.827
28.5	3 45 54	64 34	+20 21.4	1 12.0	61 9.1	14.8	16 41.3	4.0	58.814	+0.466
29.5	4 50 28	64 4	+21 33.4	0 20.8	60 54.3	32.2	16 37.3	8.8	73.863	−0.924
30.5	5 54 32	61 44	+21 12.6	1 46.6	60 22.1	45.6	16 28.5	12.4	88.724	−2.233
31.5	6 56 16	58 14	+19 26.0	2 56.1	59 36.5	53.9	16 16.1	14.7	103.274	−3.368
Juni 1.5	7 54 30	54 25	+16 29.9	3 45.8	58 42.6	56.7	16 1.4	15.4	117.429	−4.264
2.5	8 48 55	50 58	+12 44.1	4 16.7	57 45.9	55.0	15 46.0	15.0	131.146	−4.885
3.5	9 39 53	48 15	+ 8 27.4	4 31.7	56 50.9	49.5	15 31.0	13.5	144.423	−5.221
4.5	10 28 8	46 25	+ 3 55.7	4 34.2	56 1.4	41.9	15 17.5	11.4	157.292	−5.281
5.5	11 14 33	45 29	− 0 38.5	4 26.8	55 19.5	32.8	15 6.1	9.0	169.807	−5.087
6.5	12 0 2	45 21	− 5 5.3	4 10.8	54 46.7	23.5	14 57.1	6.4	182.037	−4.664
7.5	12 45 23	45 56	− 9 16.1	3 46.9	54 23.2	14.4	14 50.7	3.9	194.053	−4.048
8.5	13 31 19	47 2	−13 3.0	3 15.1	54 8.8	5.9	14 46.8	1.6	205.931	−3.255
9.5	14 18 21	48 30	−16 18.1	2 35.0	54 2.9	1.6	14 45.2	0.4	217.739	−2.332
10.5	15 6 51	50 0	−18 53.1	1 47.2	54 4.5	8.1	14 45.6	2.2	229.539	−1.311
11.5	15 56 51	51 17	−20 40.3	0 52.5	54 12.6	13.5	14 47.8	3.7	241.386	−0.231
12.5	16 48 8	52 5	−21 32.8	0 6.8	54 26.1	18.1	14 51.5	5.0	253.325	+0.867
13.5	17 40 13		−21 26.0		54 44.2		14 56.5		265.394	+1.937

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1919	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Mai 3	5 58 32	161	+21 9.6	− 3.0	59.7	3 16.7	2.51	20 15	3.0	11 22	2.0
4	7 0 56	151	+19 16.3	− 6.3	58.8	4 14.9	2.35	21 27	3.0	12 5	1.6
5	7 59 17	141	+16 14.1	− 8.7	57.8	5 9.2	2.17	22 39	3.0	12 39	1.3
6	8 53 37	131	+12 23.9	−10.3	56.9	5 59.5	2.02	23 49	2.9	13 7	1.1
7	9 44 34	124	+ 8 3.7	−11.2	56.1	6 46.3	1.89	—	—	13 31	0.9
8	10 33 1	119	+ 3 28.6	−11.6	55.4	7 30.7	1.81	0 57	2.8	13 52	0.8
9	11 19 58	116	− 1 9.5	−11.5	54.9	8 13.6	1.77	2 4	2.7	14 12	0.8
10	12 6 19	116	− 5 40.4	−11.0	54.4	8 55.9	1.76	3 9	2.7	14 33	0.9
11	12 52 53	117	− 9 54.7	−10.1	54.2	9 38.4	1.79	4 13	2.7	14 54	0.9
12	13 40 21	120	−13 43.3	− 8.9	54.0	10 21.8	1.83	5 17	2.7	15 18	1.1
13	14 29 12	124	−16 56.6	− 7.2	54.0	11 6.6	1.90	6 20	2.6	15 46	1.3
14	15 19 38	128	−19 25.4	− 5.1	54.0	11 53.0	1.96	7 22	2.5	16 19	1.5
15	16 11 35	132	−21 0.9	− 2.8	54.2	12 40.8	2.02	8 21	2.3	16 59	1.8
16	17 4 41	134	−21 36.5	− 0.2	54.4	13 29.9	2.06	9 15	2.1	17 45	2.1
17	17 58 18	134	−21 8.4	+ 2.5	54.7	14 19.4	2.07	10 2	1.8	18 39	2.4
18	18 51 51	133	−19 36.3	+ 5.1	55.2	15 8.9	2.05	10 43	1.6	19 39	2.6
19	19 44 53	132	−17 3.8	+ 7.5	55.7	15 57.8	2.02	11 18	1.3	20 44	2.8
20	20 37 14	130	−13 37.0	+ 9.6	56.3	16 46.1	2.00	11 48	1.2	21 52	2.9
21	21 29 7	130	− 9 24.4	+11.3	57.1	17 33.9	1.99	12 15	1.1	23 3	3.0
22	22 21 6	131	− 4 36.2	+12.6	57.9	18 21.8	2.01	12 39	1.0	—	—
23	23 13 56	134	+ 0 35.2	+13.3	58.8	19 10.6	2.07	13 3	1.0	0 16	3.1
24	0 8 34	140	+ 5 54.5	+13.2	59.6	20 1.1	2.16	13 27	1.0	1 32	3.2
25	1 5 57	148	+11 2.1	+12.3	60.4	20 54.4	2.29	13 53	1.2	2 50	3.3
26	2 6 45	157	+15 34.2	+10.2	60.9	21 51.1	2.44	14 24	1.4	4 11	3.4
27	3 11 2	165	+19 4.2	+ 7.1	61.2	22 51.3	2.57	15 2	1.7	5 33	3.4
28	4 17 51	169	+21 8.6	+ 3.2	61.1	23 54.0	2.64	15 48	2.1	6 53	3.2
29	—	—	—	—	—	—	—	16 45	2.6	8 6	2.8
30	5 25 14	167	+21 33.5	− 1.1	60.6	0 57.3	2.62	17 52	2.9	9 8	2.3
31	6 30 52	160	+20 20.1	− 4.9	59.9	1 58.8	2.50	19 5	3.1	9 58	1.8
Juni 1	7 32 59	150	+17 43.3	− 8.0	59.1	2 56.8	2.33	20 20	3.1	10 37	1.4
2	8 30 51	139	+14 5.2	−10.0	58.1	3 50.6	2.15	21 33	3.0	11 8	1.2
3	9 24 39	130	+ 9 48.0	−11.3	57.1	4 40.3	2.00	22 44	2.9	11 34	1.0
4	10 15 11	123	+ 5 10.6	−11.8	56.2	5 26.8	1.88	23 53	2.8	11 57	0.9
5	11 3 25	119	+ 0 27.6	−11.7	55.5	6 11.0	1.81	—	—	12 18	0.8
6	11 50 24	117	− 4 9.7	−11.3	54.9	6 53.9	1.78	0 59	2.7	12 38	0.8
7	12 37 4	117	− 8 31.8	−10.5	54.4	7 36.5	1.78	2 4	2.7	12 59	0.9
8	13 24 13	119	−12 30.2	− 9.3	54.2	8 19.6	1.82	3 8	2.6	13 22	1.0
9	14 12 32	123	−15 56.2	− 7.8	54.1	9 3.8	1.87	4 11	2.6	13 49	1.2
10	15 2 24	127	−18 40.9	− 5.9	54.1	9 49.6	1.95	5 14	2.6	14 20	1.4
11	15 53 56	131	−20 35.6	− 3.6	54.2	10 37.1	2.01	6 14	2.4	14 57	1.7
12	16 46 55	134	−21 32.2	− 1.1	54.4	11 26.0	2.06	7 10	2.2	15 41	2.0
13	17 40 47	135	−21 25.6	+ 1.6	54.7	12 15.8	2.08	8 0	2.0	16 33	2.3

Mittlere Zeit Greenwich		Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite
1919		h m s	m s	° ′	′ ″	′ ″	″	′ ″	″	°	°
Juni	13.5	17 40 13	52 16	−21 26.0	1 7.8	54 44.2	22.0	14 56.5	5.9	265.394	+1.937
	14.5	18 32 29	51 53	−20 18.2	2 6.6	55 6.2	25.4	15 2.4	7.0	277.623	+2.930
	15.5	19 24 22	51 9	−18 11.6	3 0.3	55 31.6	28.8	15 9.4	7.8	290.038	+3.800
	16.5	20 15 31	50 22	−15 11.3	3 45.9	56 0.4	31.9	15 17.2	8.7	302.660	+4.499
	17.5	21 5 53	49 50	−11 25.4	4 22.0	56 32.3	34.8	15 25.9	9.6	315.510	+4.987
	18.5	21 55 43	49 51	− 7 3.4	4 46.9	57 7.1	37.3	15 35.5	10.1	328.605	+5.226
	19.5	22 45 34	50 33	− 2 16.5	4 59.5	57 44.4	38.8	15 45.6	10.5	341.964	+5.191
	20.5	23 36 7	52 8	+ 2 43.0	4 57.9	58 23.2	38.5	15 56.1	10.5	355.601	+4.866
	21.5	0 28 15	54 28	+ 7 40.9	4 39.5	59 1.7	35.6	16 6.6	9.7	9.521	+4.252
	22.5	1 22 43	57 25	+12 20.4	4 1.9	59 37.3	29.2	16 16.3	8.0	23.718	+3.369
	23.5	2 20 8	60 26	+16 22.3	3 3.9	60 6.5	19.5	16 24.3	5.3	38.166	+2.259
	24.5	3 20 34	62 48	+19 26.2	1 47.5	60 26.0	6.3	16 29.6	1.7	52.812	+0.987
	25.5	4 23 22	63 45	+21 13.7	0 19.4	60 32.3	8.8	16 31.3	2.4	67.576	−0.358
	26.5	5 27 7	62 50	+21 33.1	1 9.8	60 23.5	23.8	16 28.9	6.5	82.353	−1.679
	27.5	6 29 57	60 21	+20 23.3	2 28.7	59 59.7	36.8	16 22.4	10.0	97.026	−2.878
	28.5	7 30 18	56 58	+17 54.6	3 30.0	59 22.9	46.3	16 12.4	12.6	111.478	−3.871
	29.5	8 27 16	53 26	+14 24.6	4 11.1	58 36.6	51.3	15 59.8	14.0	125.611	−4.602
	30.5	9 20 42	50 23	+10 13.5	4 33.5	57 45.3	51.7	15 45.8	14.1	139.356	−5.045
Juli	1.5	10 11 5	48 3	+ 5 40.0	4 40.4	56 53.6	48.1	15 31.7	13.1	152.684	−5.197
	2.5	10 59 8	46 35	+ 0 59.6	4 35.2	56 5.5	41.7	15 18.6	11.4	165.605	−5.078
	3.5	11 45 43	45 57	− 3 35.6	4 20.2	55 23.8	33.1	15 7.2	9.0	178.156	−4.716
	4.5	12 31 40	46 5	− 7 55.8	3 57.1	54 50.7	23.4	14 58.2	6.4	190.402	−4.144
	5.5	13 17 45	46 50	−11 52.9	3 26.4	54 27.3	13.4	14 51.8	3.7	202.417	−3.400
	6.5	14 4 35	48 3	−15 19.3	2 48.3	54 13.9	3.6	14 48.1	1.0	214.285	−2.518
	7.5	14 52 38	49 30	−18 7.6	2 2.8	54 10.3	5.3	14 47.1	1.5	226.091	−1.533
	8.5	15 42 8	50 56	−20 10.4	1 10.2	54 15.6	13.2	14 48.6	3.6	237.913	−0.483
	9.5	16 33 4	52 1	−21 20.6	0 12.2	54 28.8	19.6	14 52.2	5.3	249.823	+0.595
	10.5	17 25 5	52 35	−21 32.8	0 49.1	54 48.4	24.4	14 57.5	6.7	261.883	+1.656
	11.5	18 17 40	52 34	−20 43.7	1 50.0	55 12.8	27.7	15 4.2	7.6	274.137	+2.656
	12.5	19 10 14	52 3	−18 53.7	2 46.9	55 40.5	29.6	15 11.8	8.0	286.617	+3.545
	13.5	20 2 17	51 17	−16 6.8	3 36.5	56 10.1	30.1	15 19.8	8.3	299.338	+4.275
	14.5	20 53 34	50 35	−12 30.3	4 15.9	56 40.2	29.9	15 28.1	8.1	312.301	+4.799
	15.5	21 44 9	50 15	− 8 14.4	4 43.4	57 10.1	29.0	15 36.2	8.0	325.495	+5.079
	16.5	22 34 24	50 28	− 3 31.0	4 57.6	57 39.1	27.8	15 44.2	7.5	338.902	+5.087
	17.5	23 24 52	51 24	+ 1 26.6	4 57.3	58 6.9	26.1	15 51.7	7.1	352.502	+4.811
	18.5	0 16 16	53 4	+ 6 23.9	4 41.3	58 33.0	23.7	15 58.8	6.5	6.275	+4.256
	19.5	1 9 20	55 23	+11 5.2	4 8.3	58 56.7	20.6	16 5.3	5.6	20.206	+3.444
	20.5	2 4 43	57 57	+15 13.5	3 17.6	59 17.3	15.8	16 10.9	4.3	34.282	+2.416
	21.5	3 2 40	60 19	+18 31.1	2 10.2	59 33.1	9.2	16 15.2	2.6	48.486	+1.231
	22.5	4 2 59	61 46	+20 41.3	0 50.3	59 42.3	0.8	16 17.8	0.2	62.794	−0.038
	23.5	5 4 45	61 51	+21 31.6	0 34.8	59 43.1	9.1	16 18.0	2.5	77.166	−1.308
	24.5	6 6 36		+20 56.8		59 34.0		16 15.5		91.543	−2.494

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1919	h m s	s	° '	'	"	h m	m	h m	m	h m	m
Juni 13	17 40 47	135	−21 25.6	+ 1.6	54.7	12 15.8	2.08	8 0	2.0	16 33	2.3
14	18 34 52	135	−20 13.7	+ 4.3	55.1	13 5.8	2.08	8 44	1.7	17 32	2.6
15	19 28 30	133	−17 59.0	+ 6.8	55.6	13 55.3	2.05	9 21	1.4	18 36	2.8
16	20 21 18	131	−14 47.7	+ 9.0	56.1	14 44.1	2.01	9 52	1.2	19 44	2.9
17	21 13 15	129	−10 48.9	+10.8	56.6	15 31.9	1.98	10 20	1.1	20 54	2.9
18	22 4 41	128	− 6 13.3	+12.1	57.2	16 19.3	1.97	10 45	1.0	22 5	3.0
19	22 56 15	130	− 1 13.3	+12.8	57.9	17 6.8	1.99	11 8	1.0	23 18	3.1
20	23 48 48	133	+ 3 57.3	+12.9	58.5	17 55.3	2.06	11 31	1.0	—	—
21	0 43 19	140	+ 9 2.3	+12.3	59.2	18 45.7	2.15	11 55	1.1	0 33	3.2
22	1 40 41	148	+13 42.5	+10.9	59.8	19 39.0	2.29	12 23	1.3	1 51	3.3
23	2 41 27	156	+17 35.9	+ 8.4	60.2	20 35.6	2.43	12 56	1.5	3 10	3.3
24	3 45 27	163	+20 19.2	+ 5.1	60.5	21 35.6	2.55	13 37	1.9	4 28	3.2
25	4 51 35	166	+21 33.5	+ 1.1	60.5	22 37.6	2.60	14 27	2.3	5 43	3.0
26	5 57 52	164	+21 9.9	− 3.0	60.2	23 39.7	2.56	15 28	2.8	6 50	2.6
27	—	—	—	—	—	—	—	16 39	3.1	7 46	2.1
28	7 2 12	157	+19 13.6	− 6.6	59.7	0 40.0	2.44	17 54	3.2	8 31	1.7
29	8 3 3	147	+16 1.7	− 9.3	59.0	1 36.7	2.28	19 10	3.1	9 6	1.3
30	8 59 56	137	+11 56.6	−11.0	58.1	2 29.5	2.12	20 24	3.0	9 35	1.1
Juli 1	9 53 9	129	+ 7 20.6	−11.9	57.2	3 18.7	1.98	21 35	2.9	10 0	1.0
2	10 43 29	123	+ 2 32.1	−12.1	56.3	4 4.9	1.88	22 44	2.8	10 22	0.9
3	11 31 54	119	− 2 14.4	−11.7	55.6	4 49.3	1.82	23 51	2.7	10 43	0.9
4	12 19 20	118	− 6 47.7	−11.0	55.0	5 32.6	1.80	—	—	11 4	0.9
5	13 6 41	119	−10 58.7	− 9.9	54.5	6 15.9	1.82	0 56	2.7	11 27	1.0
6	13 54 44	121	−14 39.2	− 8.4	54.3	6 59.9	1.85	2 1	2.7	11 52	1.1
7	14 44 1	125	−17 40.9	− 6.7	54.2	7 45.1	1.92	3 4	2.6	12 21	1.3
8	15 34 54	129	−19 55.7	− 4.5	54.2	8 31.9	1.98	4 5	2.5	12 55	1.6
9	16 27 21	133	−21 15.6	− 2.1	54.4	9 20.3	2.05	5 2	2.3	13 37	1.9
10	17 21 5	135	−21 34.0	+ 0.6	54.8	10 10.0	2.09	5 55	2.1	14 26	2.2
11	18 15 29	136	−20 47.0	+ 3.3	55.2	11 0.3	2.10	6 41	1.8	15 22	2.5
12	19 9 54	135	−18 54.7	+ 6.0	55.7	11 50.6	2.09	7 21	1.5	16 25	2.7
13	20 3 43	134	−16 1.4	+ 8.4	56.2	12 40.4	2.05	7 55	1.3	17 33	2.9
14	20 56 43	131	−12 15.5	+10.4	56.7	13 29.3	2.02	8 24	1.1	18 43	3.0
15	21 48 57	130	− 7 48.3	+11.8	57.2	14 17.4	2.00	8 50	1.0	19 55	3.0
16	22 40 52	130	− 2 53.2	+12.7	57.7	15 5.3	1.99	9 14	1.0	21 9	3.1
17	23 33 7	132	+ 2 15.3	+12.9	58.2	15 53.5	2.02	9 37	1.0	22 23	3.1
18	0 26 32	136	+ 7 21.0	+12.4	58.6	16 42.8	2.09	10 1	1.0	23 38	3.2
19	1 21 58	142	+12 6.4	+11.2	59.0	17 34.2	2.19	10 27	1.1	—	—
20	2 20 5	149	+16 12.5	+ 9.2	59.4	18 28.2	2.31	10 57	1.4	0 55	3.1
21	3 21 5	156	+19 19.2	+ 6.3	59.6	19 25.1	2.43	11 34	1.7	2 12	3.1
22	4 24 31	161	+21 8.5	+ 2.7	59.7	20 24.4	2.51	12 19	2.1	3 26	3.0
23	5 29 6	161	+21 28.0	− 1.1	59.7	21 24.9	2.52	13 14	2.5	4 35	2.7
24	6 33 4	158	+20 15.9	− 4.8	59.4	22 24.7	2.46	14 19	2.9	5 34	2.2

Mittlere Zeit Greenwich	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1919	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Juli 24.5	6 6 36	60 26	+20 56.8	1 55.8	59 34.0	19.5	16 15.5	5.3	91.543	−2.494
25.5	7 7 2	57 54	+19 1.0	3 4.0	59 14.5	29.4	16 10.2	8.0	105.849	−3.513
26.5	8 4 56	54 54	+15 57.0	3 54.7	58 45.1	37.3	16 2.2	10.2	119.998	−4.303
27.5	8 59 50	51 59	+12 2.3	4 26.7	58 7.8	42.4	15 52.0	11.6	133.907	−4.821
28.5	9 51 49	49 33	+ 7 35.6	4 41.3	57 25.4	44.2	15 40.4	12.1	147.506	−5.052
29.5	10 41 22	47 50	+ 2 54.3	4 41.4	56 41.2	42.4	15 28.3	11.5	160.752	−5.002
30.5	11 29 12	46 50	− 1 47.1	4 29.7	55 58.8	37.6	15 16.8	10.3	173.634	−4.696
31.5	12 16 2	46 33	− 6 16.8	4 8.4	55 21.2	30.5	15 6.5	8.3	186.173	−4.169
Aug. 1.5	13 2 35	46 55	−10 25.2	3 39.0	54 50.7	21.6	14 58.2	5.9	198.415	−3.461
2.5	13 49 30	47 47	−14 4.2	3 2.2	54 29.1	11.7	14 52.3	3.2	210.429	−2.609
3.5	14 37 17	48 59	−17 6.4	2 18.8	54 17.4	1.4	14 49.1	0.4	222.296	−1.654
4.5	15 26 16	50 17	−19 25.2	1 28.6	54 16.0	8.7	14 48.7	2.4	234.106	−0.633
5.5	16 16 33	51 27	−20 53.8	0 32.9	54 24.7	17.9	14 51.1	4.9	245.948	+0.418
6.5	17 8 0	52 16	−21 26.7	0 26.7	54 42.6	25.7	14 56.0	7.0	257.909	+1.458
7.5	18 0 16	52 39	−21 0.0	1 27.8	55 8.3	31.8	15 3.0	8.7	270.064	+2.448
8.5	18 52 55	52 32	−19 32.2	2 27.1	55 40.1	35.6	15 11.7	9.7	282.475	+3.341
9.5	19 45 27	52 7	−17 5.1	3 21.0	56 15.7	36.9	15 21.4	10.0	295.183	+4.088
10.5	20 37 34	51 38	−13 44.1	4 6.2	56 52.6	35.7	15 31.4	9.8	308.206	+4.642
11.5	21 29 12	51 19	− 9 37.9	4 39.4	57 28.3	32.3	15 41.2	8.8	321.534	+4.957
12.5	22 20 31	51 25	− 4 58.5	4 58.8	58 0.6	27.4	15 50.0	7.5	335.135	+5.001
13.5	23 11 56	52 5	+ 0 0.3	5 2.2	58 28.0	21.4	15 57.5	5.8	348.954	+4.756
14.5	0 4 1	53 20	+ 5 2.5	4 48.7	58 49.4	15.1	16 3.3	4.1	2.931	+4.225
15.5	0 57 21	55 7	+ 9 51.2	4 17.7	59 4.5	9.1	16 7.4	2.5	17.005	+3.434
16.5	1 52 28	57 9	+14 8.9	3 29.4	59 13.6	3.7	16 9.9	1.0	31.127	+2.430
17.5	2 49 37	59 3	+17 38.3	2 25.7	59 17.3	1.4	16 10.9	0.3	45.261	+1.275
18.5	3 48 40	60 17	+20 4.0	1 10.7	59 15.9	6.2	16 10.6	1.7	59.383	+0.042
19.5	4 48 57	60 28	+21 14.7	0 9.9	59 9.7	11.2	16 8.9	3.1	73.478	−1.191
20.5	5 49 25	59 26	+21 4.8	1 28.3	58 58.5	16.2	16 5.8	4.4	87.529	−2.346
21.5	6 48 51	57 26	+19 36.5	2 37.6	58 42.3	21.6	16 1.4	5.9	101.515	−3.354
22.5	7 46 17	54 56	+16 58.9	3 32.6	58 20.7	26.7	15 55.5	7.3	115.401	−4.153
23.5	8 41 13	52 22	+13 26.3	4 11.3	57 54.0	31.2	15 48.2	8.5	129.142	−4.701
24.5	9 33 35	50 9	+ 9 15.0	4 33.5	57 22.8	34.2	15 39.7	9.3	142.687	−4.975
25.5	10 23 44	48 29	+ 4 41.5	4 40.4	56 48.6	35.5	15 30.4	9.7	155.988	−4.972
26.5	11 12 13	47 26	+ 0 1.1	4 34.3	56 13.1	34.4	15 20.7	9.4	169.010	−4.708
27.5	11 59 39	47 1	− 4 33.2	4 17.0	55 38.7	31.0	15 11.3	8.5	181.736	−4.211
28.5	12 46 40	47 8	− 8 50.2	3 50.3	55 7.7	25.6	15 2.8	7.0	194.175	−3.522
29.5	13 33 48	47 43	−12 40.5	3 15.4	54 42.1	18.1	14 55.8	4.9	206.358	−2.683
30.5	14 21 31	48 38	−15 55.9	2 33.6	54 24.0	9.1	14 50.9	2.5	218.338	−1.735
31.5	15 10 9	49 40	−18 29.5	1 45.6	54 14.9	0.7	14 48.4	0.2	230.185	−0.721
Sept. 1.5	15 59 49	50 40	−20 15.1	0 52.3	54 15.6	11.1	14 48.6	3.0	241.982	+0.321
2.5	16 50 29	51 28	−21 7.4	0 4.7	54 26.7	21.2	14 51.6	5.8	253.819	+1.354
3.5	17 41 57		−21 2.7		54 47.9		14 57.4		265.787	+2.338

Tag	Obere Kulmination in Greenwich							0^h Länge, $+50°$ Breite			
	AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1919	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juli 24	6 33 4	158	+20 15.9	— 4.8	59.4	22 24.7	2.46	14 19	2.9	5 34	2.2
25	7 34 50	151	+17 41.4	— 7.9	59.0	23 22.4	2.34	15 31	3.1	6 23	1.8
26	—	—	—	—	—	—	—	16 46	3.1	7 2	1.5
27	8 33 24	142	+14 2.1	—10.2	58.4	0 16.9	2.20	18 1	3.1	7 34	1.2
28	9 28 37	134	+ 9 39.2	—11.6	57.7	1 8.0	2.06	19 14	3.0	8 1	1.1
29	10 20 50	127	+ 4 53.1	—12.2	57.0	1 56.2	1.96	20 25	2.9	8 25	1.0
30	11 10 49	123	+ 0 1.1	—12.1	56.2	2 42.1	1.88	21 34	2.8	8 47	0.9
31	11 59 24	120	— 4 42.6	—11.5	55.6	3 26.6	1.84	22 41	2.8	9 8	0.9
Aug. 1	12 47 24	120	— 9 7.0	—10.5	55.0	4 10.5	1.83	23 47	2.7	9 30	1.0
2	13 35 35	121	—13 3.0	— 9.1	54.6	4 54.7	1.85	—	—	9 55	1.1
3	14 24 34	124	—16 22.2	— 7.4	54.3	5 39.6	1.90	0 50	2.6	10 23	1.2
4	15 14 47	127	—18 57.2	— 5.4	54.3	6 25.7	1.95	1 52	2.5	10 55	1.5
5	16 6 26	131	—20 40.4	— 3.1	54.4	7 13.3	2.01	2 51	2.4	11 33	1.7
6	16 59 26	134	—21 25.3	— 0.6	54.7	8 2.2	2.06	3 46	2.2	12 18	2.0
7	17 53 25	136	—21 7.0	+ 2.1	55.1	8 52.1	2.09	4 35	1.9	13 11	2.4
8	18 47 53	136	—19 43.2	+ 4.8	55.6	9 42.5	2.10	5 17	1.6	14 12	2.7
9	19 42 16	136	—17 15.6	+ 7.4	56.2	10 32.8	2.09	5 54	1.4	15 18	2.8
10	20 36 13	134	—13 49.9	+ 9.7	56.9	11 22.7	2.07	6 26	1.2	16 28	3.0
11	21 29 37	133	— 9 35.7	+11.4	57.5	12 12.0	2.04	6 54	1.1	17 41	3.1
12	22 22 41	133	— 4 46.1	+12.6	58.0	13 1.0	2.04	7 19	1.0	18 55	3.1
13	23 15 54	134	+ 0 23.5	+13.1	58.5	13 50.1	2.06	7 43	1.0	20 10	3.1
14	0 9 52	137	+ 5 35.6	+12.8	58.9	14 40.0	2.10	8 7	1.0	21 26	3.2
15	1 5 19	141	+10 31.4	+11.7	59.1	15 31.4	2.18	8 33	1.1	22 44	3.2
16	2 2 49	147	+14 51.5	+ 9.8	59.2	16 24.8	2.28	9 2	1.3	—	—
17	3 2 36	152	+18 16.7	+ 7.2	59.3	17 20.6	2.36	9 36	1.6	0 1	3.2
18	4 4 25	156	+20 30.2	+ 3.9	59.2	18 18.2	2.44	10 18	1.9	1 16	3.0
19	5 7 20	158	+21 20.2	+ 0.3	59.1	19 17.0	2.45	11 8	2.3	2 25	2.7
20	6 10 3	155	+20 42.9	— 3.3	58.9	20 15.6	2.42	12 8	2.7	3 26	2.3
21	7 11 10	150	+18 43.5	— 6.5	58.6	21 12.7	2.33	13 16	2.9	4 17	1.9
22	8 9 46	143	+15 35.0	— 9.1	58.2	22 7.2	2.21	14 28	3.0	4 59	1.6
23	9 5 28	136	+11 35.1	—10.8	57.7	22 58.8	2.10	15 42	3.1	5 34	1.3
24	9 58 29	129	+ 7 2.4	—11.8	57.1	23 47.7	1.99	16 55	3.0	6 2	1.1
25	—	—	—	—	—	—	—	18 6	2.9	6 27	1.0
26	10 49 19	125	+ 2 14.6	—12.1	56.5	0 34.5	1.91	19 16	2.9	6 50	0.9
27	11 38 39	122	— 2 32.8	—11.8	55.9	1 19.7	1.87	20 24	2.8	7 12	0.9
28	12 27 14	121	— 7 6.6	—11.0	55.3	2 4.3	1.84	21 30	2.7	7 34	1.0
29	13 15 42	122	—11 16.0	— 9.7	54.9	2 48.7	1.86	22 35	2.7	7 58	1.1
30	14 4 39	123	—14 51.6	— 8.2	54.5	3 33.5	1.89	23 38	2.6	8 25	1.2
31	14 54 29	126	—17 45.3	— 6.3	54.3	4 19.3	1.93	—	—	8 55	1.3
Sept. 1	15 45 26	129	—19 50.0	— 4.1	54.2	5 6.2	1.98	0 38	2.4	9 30	1.6
2	16 37 32	132	—20 59.4	— 1.7	54.4	5 54.2	2.02	1 34	2.2	10 12	1.9
3	17 30 35	134	—21 8.8	+ 0.9	54.7	6 43.2	2.05	2 25	2.0	11 2	2.2

Mittlere Zeit Greenwich	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1919	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Sept. 3.5	17 41 57	51 57	−21 2.7	1 3.8	54 47.9	30.5	14 57.4	8.3	265.787	+2.338
4.5	18 33 54	52 6	−19 58.9	2 2.6	55 18.4	38.3	15 5.7	10.5	277.975	+3.233
5.5	19 26 0	52 1	−17 56.3	2 58.2	55 56.7	43.7	15 16.2	11.9	290.459	+3.995
6.5	20 18 1	51 52	−14 58.1	3 47.6	56 40.4	46.0	15 28.1	12.6	303.299	+4.579
7.5	21 9 53	51 53	−11 10.5	4 27.6	57 26.4	44.7	15 40.7	12.2	316.525	+4.938
8.5	22 1 46	52 12	− 6 42.9	4 54.9	58 11.1	39.9	15 52.9	10.9	330.136	+5.031
9.5	22 53 58	53 0	− 1 48.0	5 6.3	58 51.0	31.6	16 3.8	8.6	344.094	+4.830
10.5	23 46 58	54 19	+ 3 18.3	4 59.6	59 22.6	21.0	16 12.4	5.7	358.326	+4.329
11.5	0 41 17	56 3	+ 8 17.9	4 33.0	59 43.6	9.4	16 18.1	2.6	12.738	+3.547
12.5	1 37 20	57 58	+12 50.9	3 47.1	59 53.0	1.7	16 20.7	0.5	27.226	+2.531
13.5	2 35 18	59 38	+16 38.0	2 44.0	59 51.3	11.1	16 20.2	3.0	41.697	+1.350
14.5	3 34 56	60 35	+19 22.0	1 28.9	59 40.2	18.5	16 17.2	5.0	56.077	+0.089
15.5	4 35 31	60 28	+20 50.9	0 8.6	59 21.7	23.4	16 12.2	6.5	70.317	−1.168
16.5	5 35 59	59 13	+20 59.5	1 9.3	58 58.3	26.6	16 5.7	7.2	84.391	−2.340
17.5	6 35 12	57 6	+19 50.2	2 18.2	58 31.7	28.3	15 58.5	7.7	98.289	−3.358
18.5	7 32 18	54 34	+17 32.0	3 14.1	58 3.4	29.2	15 50.8	8.0	112.007	−4.168
19.5	8 26 52	52 4	+14 17.9	3 55.1	57 34.2	29.7	15 42.8	8.1	125.544	−4.733
20.5	9 18 56	49 57	+10 22.8	4 21.2	57 4.5	29.8	15 34.7	8.1	138.892	−5.030
21.5	10 8 53	48 21	+ 6 1.6	4 33.2	56 34.7	29.5	15 26.6	8.1	152.041	−5.056
22.5	10 57 14	47 22	+ 1 28.4	4 32.5	56 5.2	28.7	15 18.5	7.8	164.976	−4.820
23.5	11 44 36	46 59	− 3 4.1	4 20.2	55 36.5	26.9	15 10.7	7.4	177.688	−4.347
24.5	12 31 35	47 7	− 7 24.3	3 57.5	55 9.6	23.8	15 3.3	6.5	190.173	−3.671
25.5	13 18 42	47 39	−11 21.8	3 25.9	54 45.8	19.4	14 56.8	5.2	202.438	−2.833
26.5	14 6 21	48 26	−14 47.7	2 46.3	54 26.4	13.4	14 51.6	3.7	214.507	−1.878
27.5	14 54 47	49 19	−17 34.0	2 0.1	54 13.0	6.0	14 47.9	1.7	226.419	−0.849
28.5	15 44 6	50 8	−19 34.1	1 8.7	54 7.0	2.6	14 46.2	0.8	238.228	+0.210
29.5	16 34 14	50 44	−20 42.8	0 13.7	54 9.6	12.2	14 47.0	3.3	250.001	+1.259
30.5	17 24 58	51 3	−20 56.5	0 43.1	54 21.8	22.3	14 50.3	6.1	261.818	+2.259
Okt. 1.5	18 16 1	51 7	−20 13.4	1 39.5	54 44.1	32.2	14 56.4	8.8	273.763	+3.172
2.5	19 7 8	51 1	−18 33.9	2 33.8	55 16.3	41.4	15 5.2	11.3	285.924	+3.960
3.5	19 58 9	50 58	−16 0.1	3 23.6	55 57.7	48.8	15 16.5	13.3	298.387	+4.582
4.5	20 49 7	51 6	−12 36.5	4 6.9	56 46.5	53.4	15 29.8	14.6	311.225	+4.995
5.5	21 40 13	51 39	− 8 29.6	4 40.4	57 39.9	54.0	15 44.4	14.7	324.489	+5.159
6.5	22 31 52	52 43	− 3 49.2	5 1.1	58 33.9	50.1	15 59.1	13.7	338.201	+5.038
7.5	23 24 35	54 22	+ 1 11.9	5 5.0	59 24.0	41.0	16 12.8	11.2	352.340	+4.612
8.5	0 18 57	56 31	+ 6 16.9	4 48.9	60 5.0	27.8	16 24.0	7.5	6.842	+3.883
9.5	1 15 28	58 54	+11 5.8	4 10.5	60 32.8	11.8	16 31.5	3.3	21.603	+2.882
10.5	2 14 22	61 2	+15 16.3	3 10.9	60 44.6	4.7	16 34.8	1.3	36.494	+1.676
11.5	3 15 24	62 20	+18 27.2	1 55.0	60 39.9	19.6	16 33.5	5.4	51.378	+0.354
12.5	4 17 44	62 19	+20 22.2	0 31.0	60 20.3	31.0	16 28.1	8.4	66.133	−0.984
13.5	5 20 3	60 53	+20 53.2	0 51.5	59 49.3	38.4	16 19.7	10.5	80.668	−2.239
14.5	6 20 56		+20 1.7		59 10.9		16 9.2		94.923	−3.331

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	0^h Länge, $+50°$ Breite: Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1919	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Sept. 3	17 30 35	134	−21 8.8	+ 0.9	54.7	6 43.2	2.05	2 25	2.0	11 2	2.2
4	18 24 15	135	−20 15.2	+ 3.6	55.2	7 32.8	2.08	3 10	1.8	11 58	2.5
5	19 18 8	135	−18 18.5	+ 6.1	55.8	8 22.6	2.08	3 50	1.5	13 1	2.7
6	20 11 58	134	−15 21.6	+ 8.5	56.6	9 12.3	2.07	4 24	1.3	14 9	2.9
7	21 5 38	134	−11 30.8	+10.6	57.4	10 1.9	2.06	4 53	1.2	15 20	3.0
8	21 59 17	134	− 6 56.3	+12.2	58.2	10 51.5	2.07	5 20	1.1	16 34	3.1
9	22 53 17	136	− 1 51.9	+13.1	58.8	11 41.4	2.10	5 45	1.0	17 50	3.2
10	23 48 10	139	+ 3 25.2	+13.2	59.4	12 32.2	2.14	6 10	1.0	19 8	3.3
11	0 44 31	143	+ 8 34.8	+12.4	59.7	13 24.5	2.22	6 36	1.1	20 27	3.3
12	1 42 50	149	+13 15.1	+10.8	59.9	14 18.7	2.30	7 5	1.3	21 47	3.3
13	2 43 18	154	+17 4.2	+ 8.2	59.8	15 15.1	2.39	7 38	1.5	23 4	3.1
14	3 45 33	157	+19 43.3	+ 5.0	59.6	16 13.2	2.45	8 18	1.8	—	—
15	4 48 41	158	+20 59.6	+ 1.4	59.3	17 12.3	2.46	9 7	2.2	0 16	2.8
16	5 51 24	155	+20 48.8	− 2.2	58.9	18 10.9	2.41	10 4	2.5	1 20	2.5
17	6 52 25	150	+19 15.8	− 5.4	58.4	19 7.8	2.32	11 8	2.8	2 14	2.1
18	7 50 52	142	+16 32.5	− 8.1	57.9	20 2.1	2.20	12 18	3.0	2 58	1.7
19	8 46 27	135	+12 54.8	−10.0	57.4	20 53.6	2.09	13 30	3.0	3 34	1.4
20	9 39 22	129	+ 8 39.5	−11.2	56.9	21 42.5	1.99	14 42	3.0	4 4	1.2
21	10 30 10	125	+ 4 2.9	−11.8	56.4	22 29.2	1.91	15 52	2.9	4 30	1.0
22	11 19 30	122	− 0 40.1	−11.7	55.9	23 14.5	1.87	17 1	2.8	4 54	1.0
23	12 8 4	121	− 5 16.2	−11.2	55.4	23 59.0	1.85	18 9	2.8	5 16	0.9
24	—	—	—	—	—	—	—	19 16	2.8	5 39	1.0
25	12 56 31	121	− 9 33.6	−10.2	54.9	0 43.4	1.85	20 22	2.7	6 2	1.0
26	13 45 21	123	−13 21.8	− 8.8	54.6	1 28.1	1.88	21 25	2.6	6 27	1.1
27	14 34 57	125	−16 31.6	− 7.0	54.3	2 13.7	1.92	22 26	2.5	6 56	1.3
28	15 25 31	128	−18 54.9	− 4.9	54.1	3 0.2	1.96	23 24	2.3	7 30	1.5
29	16 17 1	130	−20 25.3	− 2.6	54.1	3 47.6	1.99	—	—	8 9	1.8
30	17 9 16	131	−20 58.2	− 0.1	54.3	4 35.8	2.02	0 17	2.1	8 55	2.0
Okt. 1	18 1 59	132	−20 30.9	+ 2.4	54.6	5 24.4	2.03	1 3	1.8	9 47	2.3
2	18 54 49	132	−19 3.0	+ 4.9	55.1	6 13.2	2.03	1 44	1.6	10 46	2.6
3	19 47 36	132	−16 36.2	+ 7.3	55.8	7 1.9	2.02	2 20	1.4	11 51	2.8
4	20 40 17	132	−13 15.1	+ 9.4	56.6	7 50.5	2.02	2 51	1.2	12 59	2.9
5	21 33 4	132	− 9 6.3	+11.2	57.5	8 39.2	2.04	3 18	1.1	14 10	3.0
6	22 26 23	134	− 4 20.0	+12.5	58.5	9 28.4	2.07	3 44	1.0	15 24	3.1
7	23 20 50	138	+ 0 50.4	+13.2	59.3	10 18.8	2.13	4 9	1.0	16 41	3.3
8	0 17 4	143	+ 6 6.7	+13.0	60.1	11 11.0	2.22	4 35	1.1	18 1	3.4
9	1 15 41	150	+11 6.8	+11.8	60.5	12 5.5	2.33	5 3	1.3	19 22	3.4
10	2 16 59	157	+15 26.0	+ 9.6	60.7	13 2.7	2.43	5 36	1.5	20 43	3.3
11	3 20 40	161	+18 40.1	+ 6.4	60.6	14 2.3	2.52	6 15	1.8	22 0	3.1
12	4 25 42	163	+20 30.9	+ 2.7	60.3	15 3.2	2.55	7 1	2.1	23 10	2.7
13	5 30 30	160	+20 50.1	− 1.1	59.7	16 3.9	2.50	7 57	2.5	—	—
14	6 33 26	154	+19 41.2	− 4.6	59.0	17 2.7	2.39	9 2	2.8	0 9	2.2

Mond 1919

Mittlere Zeit Greenwich	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1919	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Okt. 14.5	6 20 56	58 21	+20 1.7	2 4.2	59 10.9	41.8	16 9.2	11.4	94.923	−3.331
15.5	7 19 17	55 22	+17 57.5	3 2.5	58 29.1	42.0	15 57.8	11.5	108.872	−4.201
16.5	8 14 39	52 25	+14 55.0	3 44.9	57 47.1	40.2	15 46.3	10.9	122.513	−4.812
17.5	9 7 4	49 56	+11 10.1	4 12.3	57 6.9	36.9	15 35.4	10.1	135.860	−5.147
18.5	9 57 0	48 6	+ 6 57.8	4 26.3	56 30.0	33.2	15 25.3	9.1	148.935	−5.206
19.5	10 45 6	47 0	+ 2 31.5	4 28.3	55 56.8	29.2	15 16.2	7.9	161.763	−5.002
20.5	11 32 6	46 33	− 1 56.8	4 19.6	55 27.6	25.4	15 8.3	7.0	174.368	−4.557
21.5	12 18 39	46 43	− 6 16.4	4 0.8	55 2.2	21.6	15 1.3	5.9	186.771	−3.903
22.5	13 5 22	47 17	−10 17.2	3 33.0	54 40.6	17.6	14 55.4	4.8	198.995	−3.078
23.5	13 52 39	48 10	−13 50.2	2 56.4	54 23.0	13.3	14 50.6	3.6	211.062	−2.122
24.5	14 40 49	49 6	−16 46.6	2 12.5	54 9.7	8.3	14 47.0	2.3	222.998	−1.081
25.5	15 29 55	49 55	−18 59.1	1 22.5	54 1.4	2.3	14 44.7	0.6	234.835	0.000
26.5	16 19 50	50 26	−20 21.6	0 28.7	53 59.1	4.5	14 44.1	1.2	246.614	+1.077
27.5	17 10 16	50 37	−20 50.3	0 26.8	54 3.6	12.6	14 45.3	3.5	258.385	+2.109
28.5	18 0 53	50 27	−20 23.5	1 21.9	54 16.2	21.4	14 48.8	5.8	270.207	+3.057
29.5	18 51 20	50 5	−19 1.6	2 14.3	54 37.6	30.7	14 54.6	8.4	282.148	+3.882
30.5	19 41 25	49 44	−16 47.3	3 2.5	55 8.3	39.9	15 3.0	10.9	294.282	+4.547
31.5	20 31 9	49 37	−13 44.8	3 45.0	55 48.2	48.4	15 13.9	13.2	306.688	+5.018
Nov. 1.5	21 20 46	49 57	− 9 59.8	4 20.1	56 36.6	55.0	15 27.1	15.0	319.439	+5.258
2.5	22 10 43	50 54	− 5 39.7	4 45.6	57 31.6	58.4	15 42.1	15.9	332.599	+5.236
3.5	23 1 37	52 35	− 0 54.1	4 58.3	58 30.0	57.2	15 58.0	15.7	346.213	+4.924
4.5	23 54 12	54 59	+ 4 4.2	4 54.3	59 27.2	50.8	16 13.7	13.8	0.292	+4.311
5.5	0 49 11	57 56	+ 8 58.5	4 29.6	60 18.0	38.4	16 27.5	10.5	14.805	+3.407
6.5	1 47 7	60 59	+13 28.1	3 41.5	60 56.4	21.3	16 38.0	5.8	29.674	+2.253
7.5	2 48 6	63 27	+17 9.6	2 31.4	61 17.7	1.5	16 43.8	0.4	44.777	+0.925
8.5	3 51 33	64 31	+19 41.0	1 6.0	61 19.2	18.0	16 44.2	4.9	59.963	−0.477
9.5	4 56 4	63 47	+20 47.0	0 23.5	61 1.2	34.5	16 39.3	9.4	75.073	−1.840
10.5	5 59 51	61 25	+20 23.5	1 45.7	60 26.7	46.2	16 29.9	12.6	89.966	−3.057
11.5	7 1 16	58 1	+18 37.8	2 52.1	59 40.5	52.4	16 17.3	14.3	104.531	−4.048
12.5	7 59 17	54 28	+15 45.7	3 40.0	58 48.1	53.6	16 3.0	14.7	118.703	−4.763
13.5	8 53 45	51 17	+12 5.7	4 10.2	57 54.5	51.1	15 48.3	13.9	132.458	−5.180
14.5	9 45 2	48 50	+ 7 55.5	4 25.3	57 3.4	46.0	15 34.4	12.6	145.807	−5.302
15.5	10 33 52	47 13	+ 3 30.2	4 28.2	56 17.4	39.5	15 21.8	10.7	158.784	−5.148
16.5	11 21 5	46 23	− 0 58.0	4 20.5	55 37.9	32.5	15 11.1	8.9	171.440	−4.745
17.5	12 7 28	46 19	− 5 18.5	4 3.8	55 5.4	25.6	15 2.2	7.0	183.828	−4.127
18.5	12 53 47	46 47	− 9 22.3	3 38.5	54 39.8	19.3	14 55.2	5.3	196.005	−3.332
19.5	13 40 34	47 41	−13 0.8	3 4.8	54 20.5	13.5	14 49.9	3.7	208.020	−2.399
20.5	14 28 15	48 44	−16 5.6	2 23.6	54 7.0	8.1	14 46.2	2.2	219.921	−1.370
21.5	15 16 59	49 44	−18 29.2	1 35.7	53 58.9	3.1	14 44.0	0.8	231.748	−0.288
22.5	16 6 43	50 26	−20 4.9	0 42.7	53 55.8	2.1	14 43.2	0.6	243.538	+0.802
23.5	16 57 9	50 42	−20 47.6	0 12.7	53 57.9	7.5	14 43.8	2.0	255.327	+1.858
24.5	17 47 51		−20 34.9		54 5.4		14 45.8		267.151	+2.836

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1ʰ westl. Länge	Dekl.	Änderung für 1ʰ westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1ʰ westl. Länge	0ʰ Länge, +50° Breite: Aufgang	Änderung für 1ʰ westl. Länge	Untergang	Änderung für 1ʰ westl. Länge
1919	h m s	s	° '	'	"	h m	m	h m	m	h m	m
Okt. 14	6 33 26	154	+19 41.2	− 4.6	59.0	17 2.7	2.39	9 2	2.8	0 9	2.2
15	7 33 22	145	+17 16.9	− 7.3	58.3	17 58.5	2.26	10 11	2.9	0 57	1.8
16	8 29 53	137	+13 54.5	− 9.4	57.6	18 51.0	2.12	11 22	3.0	1 36	1.5
17	9 23 16	130	+ 9 51.8	−10.7	56.9	19 40.3	1.99	12 33	2.9	2 8	1.2
18	10 14 6	125	+ 5 25.0	−11.4	56.3	20 27.0	1.91	13 43	2.9	2 35	1.0
19	11 3 13	121	+ 0 48.3	−11.6	55.8	21 12.1	1.85	14 52	2.8	2 58	1.0
20	11 51 24	120	− 3 45.9	−11.2	55.3	21 56.2	1.83	15 59	2.8	3 21	0.9
21	12 39 22	120	− 8 6.3	−10.4	54.9	22 40.1	1.84	17 5	2.7	3 43	0.9
22	13 27 45	122	−12 2.5	− 9.2	54.5	23 24.4	1.86	18 10	2.7	4 6	1.0
23	—	—	—	—	—	—	—	19 14	2.7	4 30	1.1
24	14 16 56	124	−15 24.6	− 7.6	54.3	0 9.6	1.90	20 17	2.6	4 58	1.2
25	15 7 9	127	−18 3.8	− 5.6	54.1	0 55.7	1.95	21 16	2.4	5 30	1.4
26	15 58 21	129	−19 52.7	− 3.4	54.0	1 42.8	1.98	22 10	2.2	6 7	1.7
27	16 50 17	130	−20 45.6	− 1.0	54.0	2 30.7	2.01	22 59	1.9	6 50	1.9
28	17 42 34	131	−20 39.6	+ 1.5	54.2	3 18.9	2.01	23 41	1.7	7 40	2.2
29	18 34 48	130	−19 34.5	+ 3.9	54.5	4 7.1	2.00	—	—	8 36	2.4
30	19 26 40	129	−17 32.2	+ 6.2	55.0	4 54.8	1.98	0 18	1.4	9 37	2.6
31	20 18 7	128	−14 37.0	+ 8.3	55.6	5 42.2	1.97	0 50	1.2	10 42	2.8
Nov. 1	21 9 22	128	−10 54.8	+10.1	56.4	6 29.4	1.97	1 18	1.1	11 50	2.9
2	22 0 50	129	− 6 33.2	+11.6	57.3	7 16.8	1.99	1 43	1.0	13 1	3.0
3	22 53 13	133	− 1 41.9	+12.6	58.3	8 5.1	2.04	2 8	1.0	14 15	3.1
4	23 47 20	138	+ 3 25.7	+12.9	59.3	8 55.1	2.13	2 33	1.0	15 31	3.2
5	0 44 1	146	+ 8 32.2	+12.4	60.2	9 47.7	2.25	2 59	1.1	16 50	3.4
6	1 43 58	154	+13 14.8	+10.9	60.9	10 43.6	2.40	3 29	1.4	18 12	3.4
7	2 47 22	162	+17 7.3	+ 8.3	61.3	11 42.9	2.54	4 5	1.7	19 33	3.3
8	3 53 33	168	+19 44.4	+ 4.7	61.3	12 45.0	2.62	4 49	2.0	20 49	3.0
9	5 0 54	168	+20 48.3	+ 0.6	61.0	13 48.2	2.63	5 42	2.4	21 55	2.5
10	6 7 16	163	+20 15.0	− 3.3	60.4	14 50.5	2.54	6 45	2.8	22 50	2.1
11	7 10 46	154	+18 14.3	− 6.6	59.5	15 49.8	2.40	7 55	3.0	23 34	1.6
12	8 10 22	144	+15 5.3	− 9.0	58.6	16 45.3	2.23	9 9	3.1	—	—
13	9 6 1	135	+11 9.3	−10.5	57.7	17 36.9	2.07	10 22	3.0	0 9	1.3
14	9 58 18	127	+ 6 45.5	−11.3	56.8	18 25.1	1.95	11 34	3.0	0 38	1.1
15	10 48 7	122	+ 2 9.7	−11.6	56.1	19 10.9	1.86	12 44	2.9	1 3	1.0
16	11 36 26	120	− 2 25.2	−11.3	55.4	19 55.1	1.83	13 52	2.8	1 26	0.9
17	12 24 8	119	− 6 48.7	−10.6	54.9	20 38.8	1.82	14 58	2.7	1 48	0.9
18	13 11 58	120	−10 51.1	− 9.5	54.5	21 22.5	1.84	16 2	2.7	2 10	1.0
19	14 0 33	123	−14 23.3	− 8.1	54.2	22 7.1	1.87	17 6	2.7	2 34	1.1
20	14 50 12	126	−17 16.3	− 6.3	54.0	22 52.6	1.93	18 9	2.6	3 1	1.2
21	15 41 2	128	−19 22.0	− 4.2	53.9	23 39.4	1.97	19 9	2.4	3 31	1.3
22	—	—	—	—	—	—	—	20 5	2.2	4 6	1.6
23	16 32 49	130	−20 33.9	− 1.8	53.9	0 27.1	2.00	20 56	2.0	4 48	1.9
24	17 25 9	131	−20 47.5	+ 0.7	54.0	1 15.4	2.01	21 40	1.7	5 36	2.1

Mittlere Zeit Greenwich	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1919	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Nov. 24.5	17 47 51	50 29	−20 34.9	1 7.9	54 5.4	13.5	14 45.8	3.7	267.151	+2.836
25.5	18 38 20	49 56	−19 27.0	2 0.4	54 18.9	20.2	14 49.5	5.5	279.051	+3.697
26.5	19 28 16	49 15	−17 26.6	2 48.0	54 39.1	27.4	14 55.0	7.5	291.069	+4.404
27.5	20 17 31	48 42	−14 38.6	3 29.5	55 6.5	35.2	15 2.5	9.6	303.256	+4.923
28.5	21 6 13	48 31	−11 9.1	4 3.6	55 41.7	42.9	15 12.1	11.7	315.667	+5.223
29.5	21 54 44	48 56	− 7 5.5	4 29.4	56 24.6	49.6	15 23.8	13.6	328.362	+5.278
30.5	22 43 40	50 5	− 2 36.1	4 45.0	57 14.2	54.6	15 37.4	14.8	341.399	+5.068
Dez. 1.5	23 33 45	52 6	+ 2 8.9	4 48.0	58 8.8	56.2	15 52.2	15.4	354.829	+4.579
2.5	0 25 51	54 56	+ 6 56.9	4 34.6	59 5.0	53.4	16 7.6	14.6	8.684	+3.814
3.5	1 20 47	58 18	+11 31.5	4 1.2	59 58.4	45.1	16 22.2	12.3	22.971	+2.792
4.5	2 19 5	61 44	+15 32.7	3 5.4	60 43.5	31.0	16 34.5	8.4	37.657	+1.561
5.5	3 20 49	64 21	+18 38.1	1 48.9	61 14.5	12.5	16 42.9	3.4	52.663	+0.198
6.5	4 25 10	65 21	+20 27.0	0 19.1	61 27.0	8.1	16 46.3	2.2	67.865	−1.194
7.5	5 30 31	64 19	+20 46.1	1 11.6	61 18.9	27.7	16 44.1	7.5	83.105	−2.504
8.5	6 34 50	61 33	+19 34.5	2 30.8	60 51.2	43.5	16 36.6	11.9	98.217	−3.625
9.5	7 36 23	57 54	+17 3.7	3 30.8	60 7.7	54.0	16 24.7	14.7	113.046	−4.479
10.5	8 34 17	54 13	+13 32.9	4 9.8	59 13.7	58.5	16 10.0	16.0	127.479	−5.022
11.5	9 28 30	51 3	+ 9 23.1	4 29.8	58 15.2	57.8	15 54.0	15.8	141.449	−5.246
12.5	10 19 33	48 43	+ 4 53.3	4 34.7	57 17.4	53.1	15 38.2	14.5	154.942	−5.169
13.5	11 8 16	47 15	+ 0 18.6	4 27.5	56 24.3	45.8	15 23.7	12.5	167.982	−4.823
14.5	11 55 31	46 37	− 4 8.9	4 11.0	55 38.5	37.3	15 11.2	10.2	180.626	−4.251
15.5	12 42 8	46 41	− 8 19.9	3 46.3	55 1.2	28.3	15 1.0	7.7	192.945	−3.494
16.5	13 28 49	47 20	−12 6.2	3 14.2	54 32.9	19.5	14 53.3	5.3	205.017	−2.597
17.5	14 16 9	48 17	−15 20.4	2 34.9	54 13.4	11.4	14 48.0	3.1	216.920	−1.599
18.5	15 4 26	49 22	−17 55.3	1 49.1	54 2.0	4.3	14 44.9	1.2	228.725	−0.542
19.5	15 53 48	50 18	−19 44.4	0 57.8	53 57.7	2.0	14 43.7	0.6	240.496	+0.533
20.5	16 44 6	50 49	−20 42.2	0 2.8	53 59.7	7.3	14 44.3	2.0	252.284	+1.585
21.5	17 34 55	50 52	−20 45.0	0 53.2	54 7.0	12.1	14 46.3	3.3	264.132	+2.571
22.5	18 25 47	50 27	−19 51.8	1 47.3	54 19.1	16.6	14 49.6	4.5	276.073	+3.449
23.5	19 16 14	49 43	−18 4.5	2 36.8	54 35.7	20.8	14 54.1	5.7	288.134	+4.181
24.5	20 5 57	48 55	−15 27.7	3 19.6	54 56.5	25.5	14 59.8	6.9	300.339	+4.731
25.5	20 54 52	48 19	−12 8.1	3 54.3	55 22.0	30.2	15 6.7	8.3	312.710	+5.068
26.5	21 43 11	48 11	− 8 13.8	4 20.0	55 52.2	35.3	15 15.0	9.6	325.272	+5.167
27.5	22 31 22	48 40	− 3 53.8	4 35.7	56 27.5	40.1	15 24.6	10.9	338.055	+5.014
28.5	23 20 2	49 56	+ 0 41.9	4 40.1	57 7.6	44.1	15 35.5	12.1	351.092	+4.601
29.5	0 9 58	52 1	+ 5 22.0	4 31.5	57 51.7	46.3	15 47.6	12.6	4.421	+3.934
30.5	1 1 59	54 53	+ 9 53.5	4 6.8	58 38.0	45.9	16 0.2	12.5	18.075	+3.030
31.5	1 56 52		+14 0.3		59 23.9		16 12.7		32.078	+1.924

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	0^h Länge, +50° Breite: Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1919	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Nov. 24	17 25 9	131	−20 47.5	+ 0.7	54.0	1 15.4	2.01	21 40	1.7	5 36	2.1
25	18 17 28	130	−20 1.7	+ 3.1	54.2	2 3.6	2.01	22 18	1.5	6 30	2.3
26	19 9 19	129	−18 18.4	+ 5.4	54.5	2 51.4	1.98	22 51	1.3	7 29	2.5
27	20 0 27	127	−15 42.2	+ 7.5	54.9	3 38.4	1.95	23 20	1.1	8 32	2.7
28	20 50 52	125	−12 19.4	+ 9.3	55.5	4 24.8	1.92	23 46	1.0	9 37	2.8
29	21 40 56	125	− 8 17.7	+10.8	56.2	5 10.8	1.92	—	—	10 45	2.9
30	22 31 15	127	− 3 45.9	+11.8	57.0	5 57.0	1.94	0 10	1.0	11 55	3.0
Dez. 1	23 22 38	131	+ 1 5.7	+12.4	57.9	6 44.4	2.01	0 34	1.0	13 8	3.1
2	0 16 2	137	+ 6 4.1	+12.4	58.9	7 33.7	2.11	0 58	1.0	14 23	3.2
3	1 12 24	145	+10 52.3	+11.5	59.8	8 26.0	2.25	1 25	1.2	15 41	3.3
4	2 12 31	155	+15 8.6	+ 9.7	60.7	9 22.0	2.42	1 57	1.4	17 1	3.3
5	3 16 31	164	+18 27.7	+ 6.8	61.2	10 21.9	2.57	2 35	1.8	18 19	3.2
6	4 23 35	170	+20 25.4	+ 2.9	61.4	11 24.8	2.66	3 23	2.2	19 32	2.8
7	5 31 50	170	+20 45.5	− 1.3	61.3	12 29.0	2.66	4 21	2.6	20 34	2.3
8	6 38 51	164	+19 27.1	− 5.2	60.8	13 31.9	2.57	5 29	3.0	21 25	1.9
9	7 42 39	154	+16 44.0	− 8.3	60.0	14 31.6	2.41	6 44	3.2	22 6	1.5
10	8 42 18	144	+12 58.9	−10.3	59.1	15 27.1	2.22	8 1	3.2	22 39	1.2
11	9 37 53	134	+ 8 35.6	−11.5	58.1	16 18.6	2.07	9 17	3.1	23 6	1.1
12	10 30 6	127	+ 3 54.7	−11.8	57.1	17 6.7	1.95	10 30	3.0	23 31	1.0
13	11 19 56	122	− 0 47.9	−11.6	56.2	17 52.5	1.87	11 40	2.9	23 54	0.9
14	12 8 24	120	− 5 20.1	−11.0	55.5	18 36.9	1.84	12 48	2.8	—	—
15	12 56 23	120	− 9 32.1	−10.0	54.9	19 20.8	1.83	13 54	2.7	0 16	0.9
16	13 44 40	122	−13 15.5	− 8.6	54.4	20 5.1	1.86	14 58	2.7	0 39	1.0
17	14 33 48	124	−16 22.3	− 6.9	54.1	20 50.1	1.90	16 1	2.6	1 4	1.1
18	15 24 4	127	−18 44.8	− 4.9	54.0	21 36.3	1.95	17 2	2.5	1 33	1.3
19	16 15 30	130	−20 16.0	− 2.6	54.0	22 23.7	1.99	17 59	2.3	2 6	1.5
20	17 7 46	131	−20 50.5	− 0.2	54.0	23 11.9	2.02	18 52	2.1	2 46	1.8
21	—	—	—	—	—	—	—	19 39	1.9	3 32	2.1
22	18 0 24	132	−20 25.3	+ 2.3	54.2	0 0.4	2.03	20 20	1.6	4 24	2.3
23	18 52 48	130	−19 1.0	+ 4.7	54.5	0 48.8	2.00	20 55	1.3	5 22	2.5
24	19 44 31	128	−16 41.3	+ 6.9	54.8	1 36.4	1.97	21 25	1.2	6 24	2.7
25	20 35 21	126	−13 32.7	+ 8.8	55.2	2 23.2	1.93	21 52	1.1	7 29	2.8
26	21 25 25	124	− 9 43.6	+10.3	55.7	3 9.2	1.91	22 16	1.0	8 36	2.8
27	22 15 6	124	− 5 23.7	+11.3	56.3	3 54.8	1.90	22 39	1.0	9 44	2.9
28	23 5 5	126	− 0 43.3	+12.0	56.9	4 40.7	1.93	23 2	1.0	10 54	3.0
29	23 56 11	130	+ 4 6.0	+12.1	57.7	5 27.7	1.99	23 27	1.1	12 6	3.0
30	0 49 21	136	+ 8 50.4	+11.5	58.4	6 16.8	2.10	23 55	1.2	13 20	3.1
31	1 45 30	145	+13 13.2	+10.2	59.2	7 8.9	2.25	—	—	14 36	3.1

Mittlere Zeit Greenwich	Mondbewegung			Lage des Mondäquators gegen den Erdäquator							
	☊	$L_☾$	$M_☾$	i		Δ		☊′		Δ − ☋	
1919	°	°	°	°		°		°		°	
Jan. − 4.5	251.9712	202.1712	175.31	23.967	13	68.676	517	3.604	13	356.700	12
+ 5.5	251.4416	333.9351	305.96	23.980	14	68.159	517	3.591	13	356.712	12
15.5	250.9120	105.6991	76.61	23.994	14	67.642	517	3.578	13	356.724	13
25.5	250.3825	237.4631	207.26	24.008	13	67.125	517	3.565	13	356.737	13
Febr. 4.5	249.8529	9.2270	337.91	24.021	13	66.608	517	3.552	14	356.750	13
14.5	249.3234	140.9910	108.56	24.034	13	66.091	517	3.538	14	356.763	13
24.5	248.7939	272.7550	239.21	24.047	13	65.574	516	3.524	15	356.776	14
März 6.5	248.2643	44.5189	9.86	24.060	13	65.058	516	3.509	15	356.790	14
16.5	247.7348	176.2829	140.51	24.073	13	64.542	515	3.494	15	356.804	14
26.5	247.2052	308.0469	271.16	24.086	13	64.027	515	3.479	15	356.818	14
April 5.5	246.6757	79.8108	41.81	24.099	13	63.512	515	3.464	16	356.832	15
15.5	246.1462	211.5748	172.46	24.112	12	62.997	515	3.448	16	356.847	15
25.5	245.6166	343.3388	303.11	24.124	12	62.482	514	3.432	16	356.862	15
Mai 5.5	245.0871	115.1028	73.76	24.136	13	61.968	514	3.416	16	356.877	15
15.5	244.5575	246.8667	204.41	24.149	12	61.454	514	3.400	17	356.892	15
25.5	244.0280	18.6307	335.06	24.161	12	60.940	514	3.383	17	356.907	15
Juni 4.5	243.4985	150.3947	105.71	24.173	12	60.426	514	3.366	17	356.922	16
14.5	242.9689	282.1586	236.36	24.185	13	59.912	513	3.349	17	356.938	16
24.5	242.4394	53.9226	7.01	24.198	12	59.399	513	3.332	18	356.954	17
Juli 4.5	241.9098	185.6866	137.66	24.210	12	58.886	513	3.314	18	356.971	17
14.5	241.3803	317.4505	268.31	24.222	12	58.373	513	3.296	19	356.988	17
24.5	240.8508	89.2145	38.96	24.234	12	57.860	513	3.277	19	357.005	17
Aug. 3.5	240.3212	220.9785	169.61	24.246	12	57.347	512	3.258	19	357.022	17
13.5	239.7917	352.7425	300.26	24.258	12	56.835	512	3.239	19	357.039	17
23.5	239.2621	124.5064	70.91	24.270	11	56.323	512	3.220	19	357.056	18
Sept. 2.5	238.7326	256.2704	201.56	24.281	12	55.811	512	3.201	19	357.074	18
12.5	238.2031	28.0344	332.21	24.293	12	55.299	511	3.182	20	357.092	18
22.5	237.6735	159.7983	102.86	24.305	12	54.788	511	3.162	20	357.110	19
Okt. 2.5	237.1440	291.5623	233.51	24.317	11	54.277	511	3.142	20	357.129	19
12.5	236.6144	63.3263	4.16	24.328	11	53.766	511	3.122	21	357.148	19
22.5	236.0849	195.0903	134.81	24.339	11	53.255	510	3.101	21	357.167	20
Nov. 1.5	235.5554	326.8542	265.46	24.350	11	52.745	510	3.080	21	357.187	19
11.5	235.0258	98.6182	36.11	24.361	11	52.235	510	3.059	21	357.206	20
21.5	234.4963	230.3822	166.76	24.372	11	51.725	510	3.038	21	357.226	19
Dez. 1.5	233.9667	2.1461	297.41	24.383	11	51.215	509	3.017	22	357.245	20
11.5	233.4372	133.9101	68.06	24.394	11	50.706	510	2.995	22	357.265	20
21.5	232.9077	265.6741	198.71	24.405	11	50.196	509	2.973	22	357.285	20
31.5	232.3781	37.4381	329.36	24.416		49.687		2.951		357.305	
41.5	231.8486	169.2020	100.01								

Mittlere Zeit Greenwich	$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			$\log \sin p_k$		
1919	s	s	s	″	″	″			
Jan. 8.5	− 2.42	−1.63		− 65.3	+10.0		8.23722	+117	
9.5	− 4.05	−1.89	−0.26	− 55.3	+17.8	+ 7.8	8.23839	+ 63	− 54
10.5	− 5.94	−1.91	−0.02	− 37.5	+26.3	+ 8.5	8.23902	− 6	− 69
11.5	− 7.85	−1.61	+0.30	− 11.2	+34.3	+ 8.0	8.23896	− 91	− 85
12.5	− 9.46	−0.97	+0.64	+ 23.1	+39.6	+ 5.3	8.23805	−186	− 95
13.5	−10.43	−0.18	+0.79	+ 62.7	+40.6	+ 1.0	8.23619	−287	−101
14.5	−10.61	+0.54	+0.72	+103.3	+36.9	− 3.7	8.23332	−381	− 94
15.5	−10.07	+1.04	+0.50	+140.2	+29.6	− 7.3	8.22951	−458	− 77
16.5	− 9.03	+1.26	+0.22	+169.8	+20.1	− 9.5	8.22493	−503	− 45
17.5	− 7.77	+1.28	+0.02	+189.9	+10.0	−10.1	8.21990	−514	− 11
18.5	− 6.49	+1.19	−0.09	+199.9	+ 0.9	− 9.1	8.21476	−486	+ 28
19.5	− 5.30	+1.03	−0.16	+200.8	− 7.3	− 8.2	8.20990	−419	+ 67
20.5	− 4.27	+0.86	−0.17	+193.5	−13.9	− 6.6	8.20571	−323	+ 96
21.5	− 3.41	+0.72	−0.14	+179.6	−18.9	− 5.0	8.20248	−203	+120
22.5	− 2.69	+0.60	−0.12	+160.7	−22.5	− 3.6	8.20045	− 66	+137
23.5	− 2.09	+0.52	−0.08	+138.2	−24.8	− 2.3	8.19979	+ 75	+141
24.5	− 1.57			+113.4			8.20054		
Febr. 7.5	− 8.85	−1.43		− 19.8	+34.1		8.23707	−215	
8.5	−10.28	−0.75	+0.68	+ 14.3	+39.0	+ 4.9	8.23492	−254	− 39
9.5	−11.03	+0.02	+0.77	+ 53.3	+40.1	+ 1.1	8.23238	−289	− 35
10.5	−11.01	+0.71	+0.69	+ 93.4	+36.6	− 3.5	8.22949	−322	− 33
11.5	−10.30	+1.17	+0.46	+130.0	+30.0	− 6.6	8.22627	−355	− 33
12.5	− 9.13	+1.35	+0.18	+160.0	+21.5	− 8.5	8.22272	−381	− 26
13.5	− 7.78	+1.33	−0.02	+181.5	+12.3	− 9.2	8.21891	−396	− 15
14.5	− 6.45	+1.19	−0.14	+193.8	+ 3.1	− 9.2	8.21495	−398	− 2
15.5	− 5.26	+1.01	−0.18	+196.9	− 4.8	− 7.9	8.21097	−376	+ 22
16.5	− 4.25	+0.82	−0.19	+192.1	−11.9	− 7.1	8.20721	−328	+ 48
17.5	− 3.43	+0.67	−0.15	+180.2	−17.5	− 5.6	8.20393	−255	+ 73
18.5	− 2.76	+0.58	−0.09	+162.7	−21.8	− 4.3	8.20138	−158	+ 97
19.5	− 2.18	+0.55	−0.03	+140.9	−24.5	− 2.7	8.19980	− 41	+117
20.5	− 1.63	+0.57	+0.02	+116.4	−25.9	− 1.4	8.19939	+ 91	+132
21.5	− 1.06	+0.65	+0.08	+ 90.5	−25.8	+ 0.1	8.20030	+227	+136
22.5	− 0.41	+0.71	+0.06	+ 64.7	−24.5	+ 1.3	8.20257	+362	+135
23.5	+ 0.30			+ 40.2			8.20619		
März 8.5	−12.40	−0.16		+ 43.5	+44.7		8.23444	−450	
9.5	−12.56	+0.78	+0.94	+ 88.2	+38.6	− 6.1	8.22994	−450	0
10.5	−11.78	+1.33	+0.55	+126.8	+31.3	− 7.3	8.22544	−433	+ 17
11.5	−10.45	+1.58	+0.25	+158.1	+22.6	− 8.7	8.22111	−410	+ 23
12.5	− 8.87	+1.56	−0.02	+180.7	+13.3	− 9.3	8.21701	−382	+ 28
13.5	− 7.31	+1.39	−0.17	+194.0	+ 4.3	− 9.0	8.21319	−353	+ 29
14.5	− 5.92	+1.15	−0.24	+198.3	− 3.8	− 8.1	8.20966	−321	+ 32
15.5	− 4.77	+0.90	−0.25	+194.5	−10.7	− 6.9	8.20645	−284	+ 37
16.5	− 3.87		−0.20	+183.8		− 5.9	8.20361		+ 50

Mittlere Zeit Greenwich	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1919	s	s	s	″	″	″			
März 16.5	−3.87	+0.70	−0.20	+183.8	−16.6	−5.9	8.20361	−234	+50
17.5	−3.17	+0.57	−0.13	+167.2	−21.2	−4.6	8.20127	−171	+63
18.5	−2.60	+0.51	−0.06	+146.0	−24.5	−3.3	8.19956	−95	+76
19.5	−2.09	+0.55	+0.04	+121.5	−26.4	−1.9	8.19861	−1	+94
20.5	−1.54	+0.68	+0.13	+95.1	−26.8	−0.4	8.19860	+108	+109
21.5	−0.86	+0.84	+0.16	+68.3	−25.5	+1.3	8.19968	+230	+122
22.5	−0.02	+0.96	+0.12	+42.8	−22.9	+2.6	8.20198	+355	+125
23.5	+0.94	+0.98	+0.02	+19.9	−19.3	+3.6	8.20553	+478	+123
24.5	+1.92			+0.6			8.21031		
April 7.5	−12.11	+1.60		+158.8	+25.5		8.22456	−565	
8.5	−10.51	+1.69	+0.09	+184.3	+15.4	−10.1	8.21891	−506	+59
9.5	−8.82	+1.57	−0.12	+199.7	+5.7	−9.7	8.21385	−435	+71
10.5	−7.25	+1.33	−0.24	+205.4	−2.9	−8.6	8.20950	−367	+68
11.5	−5.92	+1.07	−0.26	+202.5	−10.2	−7.3	8.20583	−296	+71
12.5	−4.85	+0.81	−0.26	+192.3	−16.2	−6.0	8.20287	−226	+70
13.5	−4.04	+0.61	−0.20	+176.1	−21.0	−4.8	8.20061	−161	+65
14.5	−3.43	+0.50	−0.11	+155.1	−24.7	−3.7	8.19900	−95	+66
15.5	−2.93	+0.50	0.00	+130.4	−27.0	−2.3	8.19805	−25	+70
16.5	−2.43	+0.61	+0.11	+103.4	−28.0	−1.0	8.19780	+51	+76
17.5	−1.82	+0.78	+0.17	+75.4	−27.3	+0.7	8.19831	+136	+85
18.5	−1.04	+1.00	+0.22	+48.1	−24.8	+2.5	8.19967	+233	+97
19.5	−0.04	+1.13	+0.13	+23.3	−21.2	+3.6	8.20200	+336	+103
20.5	+1.09	+1.14	+0.01	+2.1	−16.3	+4.9	8.20536	+442	+106
21.5	+2.23	+0.98	−0.16	−14.2	−12.4	+3.9	8.20978	+542	+100
22.5	+3.21	+0.63	−0.35	−26.6	−8.2	+4.2	8.21520	+629	+87
23.5	+3.84			−34.8			8.22149		
ai 6.5	−10.14	+1.54		+204.3	+8.7		8.21917	−596	
7.5	−8.60	+1.38	−0.16	+213.0	−0.8	−9.5	8.21321	−503	+93
8.5	−7.22	+1.15	−0.23	+212.2	−9.0	−8.2	8.20818	−401	+102
9.5	−6.07	+0.90	−0.25	+203.2	−15.6	−6.6	8.20417	−299	+102
10.5	−5.17	+0.68	−0.22	+187.6	−20.7	−5.1	8.20118	−203	+96
11.5	−4.49	+0.53	−0.15	+166.9	−24.8	−4.1	8.19915	−114	+89
12.5	−3.96	+0.48	−0.05	+142.1	−27.6	−2.8	8.19801	−32	+82
13.5	−3.48	+0.52	+0.04	+114.5	−28.9	−1.3	8.19769	+42	+74
14.5	−2.96	+0.67	+0.15	+85.6	−28.9	0.0	8.19811	+112	+70
15.5	−2.29	+0.88	+0.21	+56.7	−27.0	+1.9	8.19923	+179	+67
16.5	−1.41	+1.08	+0.20	+29.7	−23.9	+3.1	8.20102	+250	+71
17.5	−0.33	+1.18	+0.10	+5.8	−19.2	+4.7	8.20352	+323	+73
18.5	+0.85	+1.14	−0.04	−13.4	−14.1	+5.1	8.20675	+399	+76
19.5	+1.99	+0.93	−0.21	−27.5	−9.3	+4.8	8.21074	+474	+75
20.5	+2.92	+0.59	−0.34	−36.8	−5.2	+4.1	8.21548	+545	+71
21.5	+3.51	+0.12	−0.47	−42.0	−1.9	+3.3	8.22093	+599	+54
22.5	+3.63			−43.9			8.22692		

Mittlere Zeit Greenwich		$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1919										
Juni	5.5	−6.98	+0.88		+211.6	−13.9		8.20848	−432	
	6.5	−6.10	+0.69	−0.19	+197.7	−19.9	−6.0	8.20416	−313	+119
	7.5	−5.41	+0.54	−0.15	+177.8	−24.4	−4.5	8.20103	−192	+121
	8.5	−4.87	+0.47	−0.07	+153.4	−27.5	−3.1	8.19911	− 78	+114
	9.5	−4.40	+0.48	+0.01	+125.9	−29.5	−2.0	8.19833	+ 23	+101
	10.5	−3.92	+0.59	+0.11	+ 96.4	−29.8	−0.3	8.19856	+110	+ 87
	11.5	−3.33	+0.74	+0.15	+ 66.6	−28.6	+1.2	8.19966	+181	+ 71
	12.5	−2.59	+0.93	+0.19	+ 38.0	−26.0	+2.6	8.20147	+241	+ 60
	13.5	−1.66	+1.06	+0.13	+ 12.0	−21.9	+4.1	8.20388	+291	+ 50
	14.5	−0.60	+1.08	+0.02	− 9.9	−17.1	+4.8	8.20679	+334	+ 43
	15.5	+0.48	+0.96	−0.12	− 27.0	−11.9	+5.2	8.21013	+374	+ 40
	16.5	+1.44	+0.70	−0.26	− 38.9	− 7.1	+4.8	8.21387	+413	+ 39
	17.5	+2.14	+0.34	−0.36	− 46.0	− 2.8	+4.3	8.21800	+445	+ 32
	18.5	+2.48	−0.08	−0.42	− 48.8	+ 0.7	+3.5	8.22245	+473	+ 28
	19.5	+2.40	−0.59	−0.51	− 48.1	+ 3.5	+2.8	8.22718	+486	+ 13
	20.5	+1.81	−1.12	−0.53	− 44.6	+ 6.6	+3.1	8.23204	+477	− 9
	21.5	+0.69			− 38.0			8.23681		
Juli	4.5	−5.90	+0.49		+185.2	−23.3		8.20469	−310	
	5.5	−5.41	+0.43	−0.06	+161.9	−27.1	−3.8	8.20159	−178	+132
	6.5	−4.98	+0.46	+0.03	+134.8	−29.3	−2.2	8.19981	− 47	+131
	7.5	−4.52	+0.54	+0.08	+105.5	−30.2	−0.9	8.19934	+ 72	+119
	8.5	−3.98	+0.69	+0.15	+ 75.3	−29.4	+0.8	8.20006	+176	+104
	9.5	−3.29	+0.85	+0.16	+ 45.9	−27.1	+2.3	8.20182	+260	+ 84
	10.5	−2.44	+0.96	+0.11	+ 18.8	−23.6	+3.5	8.20442	+324	+ 64
	11.5	−1.48	+0.96	0.00	− 4.8	−19.2	+4.4	8.20766	+363	+ 39
	12.5	−0.52	+0.85	−0.11	− 24.0	−14.3	+4.9	8.21129	+385	+ 22
	13.5	+0.33	+0.60	−0.25	− 38.3	− 9.6	+4.7	8.21514	+387	+ 2
	14.5	+0.93	+0.29	−0.31	− 47.9	− 5.3	+4.3	8.21901	+382	− 5
	15.5	+1.22	−0.10	−0.39	− 53.2	− 1.1	+4.2	8.22283	+368	− 14
	16.5	+1.12	−0.51	−0.41	− 54.3	+ 2.6	+3.7	8.22651	+350	− 18
	17.5	+0.61	−0.93	−0.42	− 51.7	+ 6.7	+4.1	8.23001	+324	− 26
	18.5	−0.32	−1.34	−0.41	− 45.0	+11.2	+4.5	8.23325	+294	− 30
	19.5	−1.66	−1.67	−0.33	− 33.8	+16.6	+5.4	8.23619	+254	− 40
	20.5	−3.33			− 17.2			8.23873		
Aug.	3.5	−4.77	+0.53		+111.7	−30.1		8.20029	− 18	
	4.5	−4.24	+0.70	+0.17	+ 81.6	−29.7	+0.4	8.20011	+118	+136
	5.5	−3.54	+0.87	+0.17	+ 51.9	−27.6	+2.1	8.20129	+238	+120
	6.5	−2.67	+0.99	+0.12	+ 24.3	−24.2	+3.4	8.20367	+339	+101
	7.5	−1.68	+0.97	−0.02	+ 0.1	−19.9	+4.3	8.20706	+417	+ 78
	8.5	−0.71	+0.83	−0.14	− 19.8	−15.3	+4.6	8.21123	+463	+ 46
	9.5	+0.12	+0.55	−0.28	− 35.1	−11.0	+4.3	8.21586	+474	+ 11
	10.5	+0.67	+0.16	−0.39	− 46.1	− 7.1	+3.9	8.22060	+455	− 19
	11.5	+0.83		−0.42	− 53.2		+3.8	8.22515		− 48

Mittlere Zeit Greenwich	$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			log sin p_k		
1919	s	s	s	″	″	″			
Aug. 11.5	+ 0.83	−0.26	−0.42	− 53.2	− 3.3	+ 3.8	8.22515	+407	− 48
12.5	+ 0.57	−0.70	−0.44	− 56.5	+ 0.4	+ 3.7	8.22922	+341	− 66
13.5	− 0.13	−1.12	−0.42	− 56.1	+ 4.6	+ 4.2	8.23263	+266	− 75
14.5	− 1.25	−1.47	−0.35	− 51.5	+ 9.9	+ 5.3	8.23529	+186	− 80
15.5	− 2.72	−1.73	−0.26	− 41.6	+16.2	+ 6.3	8.23715	+111	− 75
16.5	− 4.45	−1.81	−0.08	− 25.4	+23.1	+ 6.9	8.23826	+ 46	− 65
17.5	− 6.26	−1.61	+0.20	− 2.3	+29.9	+ 6.8	8.23872	− 17	− 63
18.5	− 7.87	−1.15	+0.46	+ 27.6	+35.0	+ 5.1	8.23855	− 78	− 61
19.5	− 9.02			+ 62.6			8.23777		
Sept. 1.5	− 3.68	+0.94		+ 56.4	−28.1		8.20006	+149	
2.5	− 2.74	+1.12	+0.18	+ 28.3	−24.7	+ 3.4	8.20155	+283	+134
3.5	− 1.62	+1.15	+0.03	+ 3.6	−20.1	+ 4.6	8.20438	+401	+118
4.5	− 0.47	+1.03	−0.12	− 16.5	−15.2	+ 4.9	8.20839	+501	+100
5.5	+ 0.56	+0.72	−0.31	− 31.7	−10.6	+ 4.6	8.21340	+563	+ 62
6.5	+ 1.28	+0.29	−0.43	− 42.3	− 6.9	+ 3.7	8.21903	+587	+ 24
7.5	+ 1.57	−0.25	−0.54	− 49.2	− 3.8	+ 3.1	8.22490	+562	− 25
8.5	+ 1.32	−0.79	−0.54	− 53.0	− 1.0	+ 2.8	8.23052	+497	− 65
9.5	+ 0.53	−1.34	−0.55	− 54.0	+ 2.3	+ 3.3	8.23549	+388	−109
10.5	− 0.81	−1.81	−0.47	− 51.7	+ 7.0	+ 4.7	8.23937	+256	−132
11.5	− 2.62	−2.14	−0.33	− 44.7	+13.4	+ 6.4	8.24193	+114	−142
12.5	− 4.76	−2.22	−0.08	− 31.3	+21.4	+ 8.0	8.24307	− 20	−134
13.5	− 6.98	−1.99	+0.23	− 9.9	+29.6	+ 8.2	8.24287	−135	−115
14.5	− 8.97	−1.42	+0.57	+ 19.7	+35.9	+ 6.3	8.24152	−228	− 93
15.5	−10.39	−0.63	+0.79	+ 55.6	+38.9	+ 3.0	8.23924	−289	− 61
16.5	−11.02	+0.16	+0.79	+ 94.5	+37.3	− 1.6	8.23635	−330	− 41
17.5	−10.86			+131.8			8.23305		
Okt. 1.5	− 0.53	+1.33		− 14.3	−15.4		8.20386	+426	
2.5	+ 0.80	+1.12	−0.21	− 29.7	−10.1	+ 5.3	8.20812	+541	+115
3.5	+ 1.92	+0.71	−0.41	− 39.8	− 5.4	+ 4.7	8.21353	+629	+ 88
4.5	+ 2.63	+0.15	−0.56	− 45.2	− 2.1	+ 3.3	8.21982	+679	+ 50
5.5	+ 2.78	−0.47	−0.62	− 47.3	+ 0.2	+ 2.3	8.22661	+676	− 3
6.5	+ 2.31	−1.15	−0.68	− 47.1	+ 2.1	+ 1.9	8.23337	+617	− 59
7.5	+ 1.16	−1.82	−0.67	− 45.0	+ 4.9	+ 2.8	8.23954	+499	−118
8.5	− 0.66	−2.38	−0.56	− 40.1	+ 9.7	+ 4.8	8.24453	+336	−163
9.5	− 3.04	−2.73	−0.35	− 30.4	+17.0	+ 7.3	8.24789	+140	−196
10.5	− 5.77	−2.69	+0.04	− 13.4	+26.2	+ 9.2	8.24929	− 57	−197
11.5	− 8.46	−2.19	+0.50	+ 12.8	+34.9	+ 8.7	8.24872	−236	−179
12.5	−10.65	−1.31	+0.88	+ 47.7	+40.2	+ 5.3	8.24636	−375	−139
13.5	−11.96	−0.30	+1.01	+ 87.9	+40.3	+ 0.1	8.24261	−473	− 98
14.5	−12.26	+0.54	+0.84	+128.2	+35.2	− 5.1	8.23788	−517	− 44
15.5	−11.72	+1.06	+0.52	+163.4	+26.7	− 8.5	8.23271	−526	− 9
16.5	−10.66	+1.24	+0.18	+190.1	+16.7	−10.0	8.22745	−509	+ 17
17.5	− 9.42			+206.8			8.22236		

Mittlere Zeit Greenwich	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1919									
Okt. 31.5	+ 2.84	+0.73		− 44.2	− 0.5		8.21229	+626	
Nov. 1.5	+ 3.57	+0.16	−0.57	− 44.7	+ 2.7	+ 3.2	8.21855	+702	+ 76
2.5	+ 3.73	−0.51	−0.67	− 42.0	+ 4.6	+ 1.9	8.22557	+731	+ 29
3.5	+ 3.22	−1.22	−0.71	− 37.4	+ 6.1	+ 1.5	8.23288	+706	− 25
4.5	+ 2.00	−1.95	−0.73	− 31.3	+ 8.3	+ 2.2	8.23994	+616	− 90
5.5	+ 0.05	−2.58	−0.63	− 23.0	+12.9	+ 4.6	8.24610	+461	−155
6.5	− 2.53	−2.98	−0.40	− 10.1	+20.2	+ 7.3	8.25071	+252	−209
7.5	− 5.51	−2.90	+0.08	+ 10.1	+29.4	+ 9.2	8.25323	+ 16	−236
8.5	− 8.41	−2.30	+0.60	+ 39.5	+37.6	+ 8.2	8.25339	−214	−230
9.5	−10.71	−1.30	+1.00	+ 77.1	+41.5	+ 3.9	8.25125	−414	−200
10.5	−12.01	−0.24	+1.06	+118.6	+39.2	− 2.3	8.24711	−560	−146
11.5	−12.25	+0.55	+0.79	+157.8	+31.7	− 7.5	8.24151	−646	− 86
12.5	−11.70	+0.98	+0.43	+189.5	+21.2	−10.5	8.23505	−669	− 23
13.5	−10.72	+1.09	+0.11	+210.7	+10.2	−11.0	8.22836	−645	+ 24
14.5	− 9.63	+1.00	−0.09	+220.9	− 0.3	−10.5	8.22191	−590	+ 55
15.5	− 8.63			+220.6			8.21601		
Nov. 29.5	+ 3.65	+0.15		− 42.8	+ 6.8		8.21700	+635	
30.5	+ 3.80	−0.45	−0.60	− 36.0	+ 8.7	+ 1.9	8.22335	+690	+ 55
Dez. 1.5	+ 3.35	−1.10	−0.65	− 27.3	+10.3	+ 1.6	8.23025	+696	+ 6
2.5	+ 2.25	−1.76	−0.66	− 17.0	+12.5	+ 2.2	8.23721	+652	− 44
3.5	+ 0.49	−2.35	−0.59	− 4.5	+16.6	+ 4.1	8.24373	+544	−108
4.5	− 1.86	−2.71	−0.36	+ 12.1	+23.0	+ 6.4	8.24917	+369	−175
5.5	− 4.57	−2.66	+0.05	+ 35.1	+30.9	+ 7.9	8.25286	+146	−223
6.5	− 7.23	−2.11	+0.55	+ 66.0	+37.3	+ 6.4	8.25432	− 96	−242
7.5	− 9.34	−1.23	+0.88	+103.3	+39.4	+ 2.1	8.25336	−332	−236
8.5	−10.57	−0.36	+0.87	+142.7	+35.6	− 3.8	8.25004	−524	−192
9.5	−10.93	+0.28	+0.64	+178.3	+26.9	− 8.7	8.24480	−660	−136
10.5	−10.65	+0.61	+0.33	+205.2	+15.9	−11.0	8.23820	−724	− 64
11.5	−10.04	+0.69	+0.08	+221.1	+ 4.4	−11.5	8.23096	−728	− 4
12.5	− 9.35	+0.62	−0.07	+225.5	− 5.8	−10.2	8.22368	−677	+ 51
13.5	− 8.73	+0.50	−0.12	+219.7	−14.6	− 8.8	8.21691	−594	+ 83
14.5	− 8.23	+0.38	−0.12	+205.1	−21.7	− 7.1	8.21097	−489	+105
15.5	− 7.85			+183.4			8.20608		
Dez. 29.5	+ 2.32	−1.01		− 19.0	+14.3		8.22809	+579	
30.5	+ 1.31	−1.47	−0.46	− 4.7	+17.0	+ 2.7	8.23388	+566	− 13
31.5	− 0.16			+ 12.3			8.23954		

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	17 9 2.02	1 46.20	−20 10 8.8	8 58.5	9.93 2778	10674	22 30.6
1	17 10 48.22	2 14.76	20 19 7.3	10 3.6	9.94 3452	10418	22 28.9
2	17 13 2.98	2 40.59	20 29 10.9	10 53.3	9.95 3870	10118	22 27.6
3	17 15 43.57	3 3.91	20 40 4.2	11 29.0	9.96 3988	9788	22 26.7
4	17 18 47.48	3 24.92	20 51 33.2	11 52.1	9.97 3776	9442	22 26.1
5	17 22 12.40	3 43.84	21 3 25.3	12 3.5	9.98 3218	9085	22 25.9
6	17 25 56.24	4 0.87	−21 15 28.8	12 4.7	9.99 2303	8725	22 25.9
7	17 29 57.11	4 16.21	21 27 33.5	11 56.6	0.00 1028	8366	22 26.2
8	17 34 13.32	4 30.06	21 39 30.1	11 40.1	0.00 9394	8012	22 26.8
9	17 38 43.38	4 42.55	21 51 10.2	11 16.4	0.01 7406	7666	22 27.5
10	17 43 25.93	4 53.87	22 2 26.6	10 46.1	0.02 5072	7329	22 28.5
11	17 48 19.80	5 4.11	22 13 12.7	10 10.1	0.03 2401	7001	22 29.6
12	17 53 23.91	5 13.42	−22 23 22.8	9 28.9	0.03 9402	6686	22 30.9
13	17 58 37.33	5 21.87	22 32 51.7	8 43.1	0.04 6088	6381	22 32.3
14	18 3 59.20	5 29.59	22 41 34.8	7 53.3	0.05 2469	6089	22 33.8
15	18 9 28.79	5 36.62	22 49 28.1	6 59.8	0.05 8558	5806	22 35.5
16	18 15 5.41	5 43.06	22 56 27.9	6 3.1	0.06 4364	5536	22 37.3
17	18 20 48.47	5 48.95	23 2 31.0	5 3.5	0.06 9900	5275	22 39.1
18	18 26 37.42	5 54.35	−23 7 34.5	4 1.2	0.07 5175	5026	22 41.1
19	18 32 31.77	5 59.31	23 11 35.7	2 56.7	0.08 0201	4785	22 43.1
20	18 38 31.08	6 3.85	23 14 32.4	1 50.2	0.08 4986	4555	22 45.3
21	18 44 34.93	6 8.04	23 16 22.6	0 41.6	0.08 9541	4331	22 47.5
22	18 50 42.97	6 11.89	23 17 4.2	0 28.8	0.09 3872	4118	22 49.7
23	18 56 54.86	6 15.44	23 16 35.4	1 40.5	0.09 7990	3910	22 52.0
24	19 3 10.30	6 18.69	−23 14 54.9	2 53.8	0.10 1900	3711	22 54.4
25	19 9 28.99	6 21.69	23 12 1.1	4 8.3	0.10 5611	3518	22 56.8
26	19 15 50.68	6 24.46	23 7 52.8	5 23.9	0.10 9129	3330	22 59.3
27	19 22 15.14	6 27.01	23 2 28.9	6 40.8	0.11 2459	3148	23 1.8
28	19 28 42.15	6 29.35	22 55 48.1	7 58.4	0.11 5607	2972	23 4.3
29	19 35 11.50	6 31.51	22 47 49.7	9 17.1	0.11 8579	2798	23 6.9
30	19 41 43.01	6 33.50	−22 38 32.6	10 36.6	0.12 1377	2630	23 9.6
31	19 48 16.51	6 35.32	22 27 56.0	11 56.7	0.12 4007	2465	23 12.2
Febr. 1	19 54 51.83	6 37.02	22 15 59.3	13 17.6	0.12 6472	2303	23 14.9
2	20 1 28.85	6 38.56	22 2 41.7	14 39.1	0.12 8775	2143	23 17.6
3	20 8 7.41	6 40.00	21 48 2.6	16 1.2	0.13 0918	1985	23 20.3
4	20 14 47.41	6 41.31	21 32 1.4	17 23.9	0.13 2903	1829	23 23.1
5	20 21 28.72	6 42.55	−21 14 37.5	18 46.9	0.13 4732	1674	23 25.8
6	20 28 11.27	6 43.68	20 55 50.6	20 10.5	0.13 6406	1519	23 28.6
7	20 34 54.95	6 44.75	20 35 40.1	21 34.5	0.13 7925	1364	23 31.4
8	20 41 39.70	6 45.74	20 14 5.6	22 58.8	0.13 9289	1208	23 34.3
9	20 48 25.44	6 46.67	19 51 6.8	24 23.6	0.14 0497	1051	23 37.1
10	20 55 12.11		19 26 43.2		0.14 1548		23 40.0

Tag	0h mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	20 55 12.11	6 47.57	−19 26 43.2	25 48.5	0.14 1548	893	23 40.0
11	21 1 59.68	6 48.42	19 0 54.7	27 13.8	0.14 2441	731	23 42.8
12	21 8 48.10	6 49.23	18 33 40.9	28 39.1	0.14 3172	566	23 45.7
13	21 15 37.33	6 50.01	18 5 1.8	30 4.8	0.14 3738	397	23 48.6
14	21 22 27.34	6 50.78	17 34 57.0	31 30.5	0.14 4135	223	23 51.5
15	21 29 18.12	6 51.53	17 3 26.5	32 56.0	0.14 4358	44	23 54.4
16	21 36 9.65	6 52.25	−16 30 30.5	34 21.7	0.14 4402	142	23 57.4
17	21 43 1.90	6 52.96	15 56 8.8	35 47.0	0.14 4260	336	— —
18	21 49 54.86	6 53.66	15 20 21.8	37 12.1	0.14 3924	538	0 0.3
19	21 56 48.52	6 54.33	14 43 9.7	38 36.7	0.14 3386	751	0 3.3
20	22 3 42.85	6 54.98	14 4 33.0	40 0.6	0.14 2635	974	0 6.2
21	22 10 37.83	6 55.58	13 24 32.4	41 23.8	0.14 1661	1208	0 9.2
22	22 17 33.41	6 56.15	−12 43 8.6	42 45.7	0.14 0453	1457	0 12.2
23	22 24 29.56	6 56.64	12 0 22.9	44 6.4	0.13 8996	1721	0 15.2
24	22 31 26.20	6 57.04	11 16 16.5	45 25.2	0.13 7275	2000	0 18.2
25	22 38 23.24	6 57.32	10 30 51.3	46 41.8	0.13 5275	2297	0 21.2
26	22 45 20.56	6 57.45	9 44 9.5	47 55.9	0.13 2978	2613	0 24.3
27	22 52 18.01	6 57.36	8 56 13.6	49 6.7	0.13 0365	2950	0 27.3
28	22 59 15.37	6 57.03	− 8 7 6.9	50 13.5	0.12 7415	3309	0 30.3
März 1	23 6 12.40	6 56.36	7 16 53.4	51 15.7	0.12 4106	3689	0 33.3
2	23 13 8.76	6 55.33	6 25 37.7	52 12.4	0.12 0417	4095	0 36.3
3	23 20 4.09	6 53.78	5 33 25.3	53 2.6	0.11 6322	4524	0 39.3
4	23 26 57.87	6 51.67	4 40 22.7	53 45.1	0.11 1798	4978	0 42.3
5	23 33 49.54	6 48.87	3 46 37.6	54 19.1	0.10 6820	5455	0 45.2
6	23 40 38.41	6 45.28	− 2 52 18.5	54 43.1	0.10 1365	5958	0 48.1
7	23 47 23.69	6 40.76	1 57 35.4	54 55.9	0.09 5407	6480	0 50.9
8	23 54 4.45	6 35.18	1 2 39.5	54 56.3	0.08 8927	7021	0 53.6
9	0 0 39.63	6 28.42	− 0 7 43.2	54 42.9	0.08 1906	7577	0 56.3
10	0 7 8.05	6 20.36	+ 0 46 59.7	54 14.9	0.07 4329	8144	0 58.8
11	0 13 28.41	6 10.90	1 41 14.6	53 31.1	0.06 6185	8715	1 1.2
12	0 19 39.31	5 59.91	+ 2 34 45.7	52 30.8	0.05 7470	9285	1 3.4
13	0 25 39.22	5 47.34	3 27 16.5	51 13.6	0.04 8185	9846	1 5.5
14	0 31 26.56	5 33.16	4 18 30.1	49 39.2	0.03 8339	10389	1 7.3
15	0 36 59.72	5 17.31	5 8 9.3	47 47.8	0.02 7950	10910	1 8.9
16	0 42 17.03	4 59.85	5 55 57.1	45 39.6	0.01 7040	11396	1 10.2
17	0 47 16.88	4 40.78	6 41 36.7	43 15.4	0.00 5644	11842	1 11.3
18	0 51 57.66	4 20.21	+ 7 24 52.1	40 36.1	9.99 3802	12242	1 12.0
19	0 56 17.87	3 58.22	8 5 28.2	37 42.4	9.98 1560	12585	1 12.4
20	1 0 16.09	3 34.95	8 43 10.6	34 35.6	9.96 8975	12869	1 12.4
21	1 3 51.04	3 10.55	9 17 46.2	31 16.8	9.95 6106	13084	1 12.0
22	1 7 1.59	2 45.18	9 49 3.0	27 47.1	9.94 3022	13228	1 11.2
23	1 9 46.77		10 16 50.1		9.92 9794		1 10.0

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
März 23	1 9 46.77	2 19.05	+10 16 50.1	24 7.8	9.92 9794	13295	1 10.0
24	1 12 5.82	1 52.36	10 40 57.9	20 20.2	9.91 6499	13280	1 8.4
25	1 13 58.18	1 25.38	11 1 18.1	16 25.4	9.90 3219	13179	1 6.3
26	1 15 23.56	0 58.32	11 17 43.5	12 24.8	9.89 0040	12990	1 3.7
27	1 16 21.88	0 31.53	11 30 8.3	8 20.0	9.87 7050	12710	1 0.8
28	1 16 53.41	0 5.28	11 38 28.3	4 13.1	9.86 4340	12334	0 57.3
29	1 16 58.69	0 20.08	+11 42 41.4	0 5.8	9.85 2006	11864	0 53.5
30	1 16 38.61	0 44.21	11 42 47.2	3 59.2	9.84 0142	11299	0 49.2
31	1 15 54.40	1 6.74	11 38 48.0	7 59.2	9.82 8843	10640	0 44.5
April 1	1 14 47.66	1 27.31	11 30 48.8	11 50.9	9.81 8203	9892	0 39.5
2	1 13 20.35	1 45.59	11 18 57.9	15 31.2	9.80 8311	9059	0 34.1
3	1 11 34.76	2 1.26	11 3 26.7	18 56.2	9.79 9252	8149	0 28.4
4	1 9 33.50	2 14.07	+10 44 30.5	22 2.6	9.79 1103	7175	0 22.5
5	1 7 19.43	2 23.79	10 22 27.9	24 46.9	9.78 3928	6145	0 16.3
6	1 4 55.64	2 30.31	9 57 41.0	27 5.8	9.77 7783	5077	0 10.0
7	1 2 25.33	2 33.60	9 30 35.2	28 57.1	9.77 2706	3985	{0 3.6 {23 57.1
8	0 59 51.73	2 33.67	9 1 38.1	30 19.2	9.76 8721	2885	23 50.6
9	0 57 18.06	2 30.66	8 31 18.9	31 10.8	9.76 5836	1795	23 44.2
10	0 54 47.40	2 24.75	+ 8 0 8.1	31 32.5	9.76 4041	729	23 37.9
11	0 52 22.65	2 16.23	7 28 35.6	31 24.5	9.76 3312	300	23 31.7
12	0 50 6.42	2 5.39	6 57 11.1	30 49.1	9.76 3612	1277	23 25.7
13	0 48 1.03	1 52.55	6 26 22.0	29 48.3	9.76 4889	2195	23 19.9
14	0 46 8.48	1 38.08	5 56 33.7	28 25.1	9.76 7084	3045	23 14.3
15	0 44 30.40	1 22.31	5 28 8.6	26 42.4	9.77 0129	3824	23 9.0
16	0 43 8.09	1 5.57	+ 5 1 26.2	24 43.5	9.77 3953	4527	23 4.0
17	0 42 2.52	0 48.18	4 36 42.7	22 31.5	9.77 8480	5158	22 59.2
18	0 41 14.34	0 30.39	4 14 11.2	20 9.6	9.78 3638	5714	22 54.8
19	0 40 43.95	0 12.43	3 54 1.6	17 40.3	9.78 9352	6200	22 50.6
20	0 40 31.52	0 5.47	3 36 21.3	15 6.5	9.79 5552	6621	22 46.8
21	0 40 36.99	0 23.16	3 21 14.8	12 29.7	9.80 2173	6980	22 43.2
22	0 41 0.15	0 40.53	+ 3 8 45.1	9 52.4	9.80 9153	7283	22 39.9
23	0 41 40.68	0 57.47	2 58 52.7	7 15.7	9.81 6436	7535	22 36.9
24	0 42 38.15	1 13.87	2 51 37.0	4 41.2	9.82 3971	7739	22 34.2
25	0 43 52.02	1 29.75	2 46 55.8	2 9.4	9.83 1710	7904	22 31.8
26	0 45 21.77	1 45.02	2 44 46.4	0 18.6	9.83 9614	8032	22 29.6
27	0 47 6.79	1 59.69	2 45 5.0	2 42.5	9.84 7646	8128	22 27.6
28	0 49 6.48	2 13.78	+ 2 47 47.5	5 1.8	9.85 5774	8197	22 25.9
29	0 51 20.26	2 27.28	2 52 49.3	7 16.2	9.86 3971	8242	22 24.4
30	0 53 47.54	2 40.22	3 0 5.5	9 25.7	9.87 2213	8266	22 23.1
Mai 1	0 56 27.76	2 52.63	3 9 31.2	11 30.1	9.88 0479	8273	22 22.0
2	0 59 20.39	3 4.54	3 21 1.3	13 29.7	9.88 8752	8263	22 21.1
3	1 2 24.93		3 34 31.0		9.89 7015		22 20.4

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Mai 3	1 2 24.93	3 15.99	+ 3 34 31.0	15 24.1	9.89 7015	8242	22 20.4
4	1 5 40.92	3 27.04	3 49 55.1	17 13.8	9.90 5257	8209	22 19.9
5	1 9 7.96	3 37.70	4 7 8.9	18 58.8	9.91 3466	8166	22 19.6
6	1 12 45.66	3 48.01	4 26 7.7	20 38.9	9.92 1632	8116	22 19.5
7	1 16 33.67	3 58.06	4 46 46.6	22 14.6	9.92 9748	8057	22 19.5
8	1 20 31.73	4 7.84	5 9 1.2	23 46.0	9.93 7805	7993	22 19.6
9	1 24 39.57	4 17.41	+ 5 32 47.2	25 12.9	9.94 5798	7924	22 20.0
10	1 28 56.98	4 26.81	5 58 0.1	26 35.7	9.95 3722	7848	22 20.5
11	1 33 23.79	4 36.09	6 24 35.8	27 54.3	9.96 1570	7767	22 21.1
12	1 37 59.88	4 45.26	6 52 30.1	29 8.8	9.96 9337	7683	22 21.9
13	1 42 45.14	4 54.40	7 21 38.9	30 19.2	9.97 7020	7594	22 22.9
14	1 47 39.54	5 3.51	7 51 58.1	31 25.7	9.98 4614	7499	22 24.0
15	1 52 43.05	5 12.64	+ 8 23 23.8	32 28.1	9.99 2113	7399	22 25.2
16	1 57 55.69	5 21.83	8 55 51.9	33 26.6	9.99 9512	7295	22 26.7
17	2 3 17.52	5 31.10	9 29 18.5	34 20.7	0.00 6807	7185	22 28.2
18	2 8 48.62	5 40.50	10 3 39.2	35 10.8	0.01 3992	7068	22 29.9
19	2 14 29.12	5 50.04	10 38 50.0	35 56.4	0.02 1060	6944	22 31.8
20	2 20 19.16	5 59.76	11 14 46.4	36 37.5	0.02 8004	6811	22 33.9
21	2 26 18.92	6 9.68	+11 51 23.9	37 13.9	0.03 4815	6671	22 36.1
22	2 32 28.60	6 19.81	12 28 37.8	37 45.2	0.04 1486	6520	22 38.5
23	2 38 48.41	6 30.18	13 6 23.0	38 11.1	0.04 8006	6358	22 41.0
24	2 45 18.59	6 40.80	13 44 34.1	38 31.2	0.05 4364	6184	22 43.8
25	2 51 59.39	6 51.65	14 23 5.3	38 45.3	0.06 0548	5996	22 46.7
26	2 58 51.04	7 2.76	15 1 50.6	38 52.5	0.06 6544	5793	22 49.8
27	3 5 53.80	7 14.06	+15 40 43.1	38 52.6	0.07 2337	5572	22 53.1
28	3 13 7.86	7 25.59	16 19 35.7	38 44.8	0.07 7909	5335	22 56.5
29	3 20 33.45	7 37.24	16 58 20.5	38 28.4	0.08 3244	5079	23 0.2
30	3 28 10.69	7 49.01	17 36 48.9	38 2.9	0.08 8323	4800	23 4.1
31	3 35 59.70	8 0.78	18 14 51.8	37 27.6	0.09 3123	4500	23 8.2
Juni 1	3 44 0.48	8 12.47	18 52 19.4	36 41.6	0.09 7623	4178	23 12.4
2	3 52 12.95	8 23.98	+19 29 1.0	35 44.5	0.10 1801	3833	23 16.9
3	4 0 36.93	8 35.16	20 4 45.5	34 35.8	0.10 5634	3465	23 21.6
4	4 9 12.09	8 45.87	20 39 21.3	33 14.8	0.10 9099	3074	23 26.4
5	4 17 57.96	8 55.94	21 12 36.1	31 41.8	0.11 2173	2661	23 31.4
6	4 26 53.90	9 5.20	21 44 17.9	29 56.3	0.11 4834	2231	23 36.6
7	4 35 59.10	9 13.46	22 14 14.2	27 59.0	0.11 7065	1782	23 41.9
8	4 45 12.56	9 20.61	+22 42 13.2	25 50.4	0.11 8847	1321	23 47.3
9	4 54 33.17	9 26.43	23 8 3.6	23 31.2	0.12 0168	851	23 52.8
10	5 3 59.60	9 30.86	23 31 34.8	21 2.9	0.12 1019	376	23 58.4
11	5 13 30.46	9 33.77	23 52 37.7	18 26.8	0.12 1395	100	— —
12	5 23 4.23	9 35.11	24 11 4.5	15 44.8	0.12 1295	571	0 4.0
13	5 32 39.34		24 26 49.3		0.12 0724		0 9.7

Tag	0h mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919	h m s	m s	° ′ ″	′ ″			h m
Juni 13	5 32 39.34	9 34.88	+24 26 49.3	12 58.3	0.12 0724	1033	0 9.7
14	5 42 14.22	9 33.09	24 39 47.6	10 9.5	0.11 9691	1482	0 15.4
15	5 51 47.31	9 29.83	24 49 57.1	7 20.0	0.11 8209	1915	0 21.0
16	6 1 17.14	9 25.14	24 57 17.1	4 31.5	0.11 6294	2329	0 26.6
17	6 10 42.28	9 19.18	25 1 48.6	1 45.8	0.11 3965	2722	0 32.1
18	6 20 1.46	9 12.05	25 3 34.4	0 55.9	0.11 1243	3092	0 37.5
19	6 29 13.51	9 3.89	+25 2 38.5	3 32.6	0.10 8151	3440	0 42.7
20	6 38 17.40	8 54.86	24 59 5.9	6 3.2	0.10 4711	3763	0 47.9
21	6 47 12.26	8 45.09	24 53 2.7	8 26.9	0.10 0948	4064	0 52.9
22	6 55 57.35	8 34.68	24 44 35.8	10 43.5	0.09 6884	4344	0 57.7
23	7 4 32.03	8 23.80	24 33 52.3	12 52.3	0.09 2540	4602	1 2.3
24	7 12 55.83	8 12.50	24 21 0.0	14 53.3	0.08 7938	4841	1 6.8
25	7 21 8.33	8 0.92	+24 6 6.7	16 46.4	0.08 3097	5061	1 11.0
26	7 29 9.25	7 49.11	23 49 20.3	18 31.7	0.07 8036	5266	1 15.1
27	7 36 58.36	7 37.15	23 30 48.6	20 9.0	0.07 2770	5454	1 19.0
28	7 44 35.51	7 25.10	23 10 39.6	21 38.8	0.06 7316	5629	1 22.7
29	7 52 0.61	7 13.00	22 49 0.8	23 1.1	0.06 1687	5792	1 26.1
30	7 59 13.61	7 0.88	22 25 59.7	24 16.1	0.05 5895	5944	1 29.4
Juli 1	8 6 14.49	6 48.77	+22 1 43.6	25 24.1	0.04 9951	6085	1 32.5
2	8 13 3.26	6 36.69	21 36 19.5	26 25.3	0.04 3866	6218	1 35.3
3	8 19 39.95	6 24.65	21 9 54.2	27 19.9	0.03 7648	6343	1 38.0
4	8 26 4.60	6 12.65	20 42 34.3	28 8.1	0.03 1305	6461	1 40.5
5	8 32 17.25	6 0.71	20 14 26.2	28 50.2	0.02 4844	6574	1 42.7
6	8 38 17.96	5 48.80	19 45 36.0	29 26.3	0.01 8270	6680	1 44.8
7	8 44 6.76	5 36.91	+19 16 9.7	29 56.5	0.01 1590	6783	1 46.6
8	8 49 43.67	5 25.05	18 46 13.2	30 21.0	0.00 4807	6880	1 48.3
9	8 55 8.72	5 13.19	18 15 52.2	30 40.0	9.99 7927	6975	1 49.8
10	9 0 21.91	5 1.29	17 45 12.2	30 53.5	9.99 0952	7064	1 51.0
11	9 5 23.20	4 49.37	17 14 18.7	31 1.4	9.98 3888	7152	1 52.1
12	9 10 12.57	4 37.35	16 43 17.3	31 4.1	9.97 6736	7234	1 52.9
13	9 14 49.92	4 25.27	+16 12 13.2	31 1.4	9.96 9502	7315	1 53.6
14	9 19 15.19	4 13.04	15 41 11.8	30 53.2	9.96 2187	7391	1 54.1
15	9 23 28.23	4 0.67	15 10 18.6	30 39.7	9.95 4796	7463	1 54.3
16	9 27 28.90	3 48.11	14 39 38.9	30 20.4	9.94 7333	7531	1 54.4
17	9 31 17.01	3 35.31	14 9 18.5	29 55.8	9.93 9802	7593	1 54.2
18	9 34 52.32	3 22.27	13 39 22.7	29 25.2	9.93 2209	7649	1 53.9
19	9 38 14.59	3 8.94	+13 9 57.5	28 48.8	9.92 4560	7699	1 53.3
20	9 41 23.53	2 55.29	12 41 8.7	28 6.2	9.91 6861	7741	1 52.5
21	9 44 18.82	2 41.26	12 13 2.5	27 17.4	9.90 9120	7772	1 51.4
22	9 47 0.08	2 26.83	11 45 45.1	26 21.9	9.90 1348	7792	1 50.1
23	9 49 26.91	2 11.99	11 19 23.2	25 19.6	9.89 3556	7798	1 48.6
24	9 51 38.90		10 54 3.6		9.88 5758		1 46.9

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Juli 24	9 51 38.90	1 56.69	+10 54 3.6	24 10.1	9.88 5758	7789	1 46.9
25	9 53 35.59	1 40.91	10 29 53.5	22 53.5	9.87 7969	7761	1 44.9
26	9 55 16.50	1 24.64	10 7 0.0	21 28.9	9.87 0208	7709	1 42.6
27	9 56 41.14	1 7.87	9 45 31.1	19 56.6	9.86 2499	7634	1 40.0
28	9 57 49.01	0 50.61	9 25 34.5	18 16.1	9.85 4865	7527	1 37.2
29	9 58 39.62	0 32.89	9 7 18.4	16 27.2	9.84 7338	7387	1 34.1
30	9 59 12.51	0 14.75	+ 8 50 51.2	14 29.9	9.83 9951	7208	1 30.7
31	9 59 27.26	0 3.74	8 36 21.3	12 24.5	9.83 2743	6984	1 27.0
Aug. 1	9 59 23.52	0 22.49	8 23 56.8	10 10.7	9.82 5759	6710	1 23.0
2	9 59 1.03	0 41.35	8 13 46.1	7 49.3	9.81 9049	6382	1 18.6
3	9 58 19.68	1 0.20	8 5 56.8	5 20.6	9.81 2667	5993	1 14.0
4	9 57 19.48	1 18.80	8 0 36.2	2 45.8	9.80 6674	5538	1 9.1
5	9 56 0.68	1 36.92	+ 7 57 50.4	0 5.8	9.80 1136	5011	1 3.8
6	9 54 23.76	1 54.30	7 57 44.6	2 37.9	9.79 6125	4413	0 58.3
7	9 52 29.46	2 10.60	8 0 22.5	5 22.9	9.79 1712	3736	0 52.4
8	9 50 18.86	2 25.47	8 5 45.4	8 7.6	9.78 7976	2983	0 46.3
9	9 47 53.39	2 38.55	8 13 53.0	10 48.9	9.78 4993	2154	0 40.0
10	9 45 14.84	2 49.47	8 24 41.9	13 24.2	9.78 2839	1252	0 33.4
11	9 42 25.37	2 57.81	+ 8 38 6.1	15 50.4	9.78 1587	287	0 26.7
12	9 39 27.56	3 3.26	8 53 56.5	18 4.5	9.78 1300	737	0 19.8
13	9 36 24.30	3 5.51	9 12 1.0	20 3.4	9.78 2037	1803	0 12.9
14	9 33 18.79	3 4.30	9 32 4.4	21 44.6	9.78 3840	2900	0 5.9 / 23 58.9
15	9 30 14.49	2 59.49	9 53 49.0	23 5.7	9.78 6740	4010	23 52.0
16	9 27 15.00	2 50.99	10 16 54.7	24 4.9	9.79 0750	5117	23 45.2
17	9 24 24.01	2 38.86	+10 40 59.6	24 41.0	9.79 5867	6203	23 38.6
18	9 21 45.15	2 23.18	11 5 40.6	24 53.3	9.80 2070	7250	23 32.3
19	9 19 21.97	2 4.20	11 30 33.9	24 41.9	9.80 9320	8245	23 26.3
20	9 17 17.77	1 42.19	11 55 15.8	24 7.6	9.81 7565	9169	23 20.7
21	9 15 35.58	1 17.53	12 19 23.4	23 10.9	9.82 6734	10014	23 15.5
22	9 14 18.05	0 50.58	12 42 34.3	21 53.2	9.83 6748	10769	23 10.7
23	9 13 27.47	0 21.78	+13 4 27.5	20 16.2	9.84 7517	11429	23 6.4
24	9 13 5.69	0 8.42	13 24 43.7	18 21.3	9.85 8946	11986	23 2.6
25	9 13 14.11	0 39.61	13 43 5.0	16 10.2	9.87 0932	12441	22 59.3
26	9 13 53.72	1 11.34	13 59 15.2	13 44.8	9.88 3373	12792	22 56.5
27	9 15 5.06	1 43.25	14 13 0.0	11 6.3	9.89 6165	13041	22 54.3
28	9 16 48.31	2 14.91	14 24 6.3	8 16.5	9.90 9206	13190	22 52.5
29	9 19 3.22	2 45.97	+14 32 22.8	5 17.2	9.92 2396	13242	22 51.3
30	9 21 49.19	3 16.13	14 37 40.0	2 9.7	9.93 5638	13204	22 50.7
31	9 25 5.32	3 45.04	14 39 49.7	1 4.1	9.94 8842	13077	22 50.4
Sept. 1	9 28 50.36	4 12.43	14 38 45.6	4 22.3	9.96 1919	12872	22 50.7
2	9 33 2.79	4 38.08	14 34 23.3	7 43.3	9.97 4791	12592	22 51.4
3	9 37 40.87		14 26 40.0		9.98 7383		22 52.4

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	9 37 40.87	5 1.74	+14 26 40.0	11 4.7	9.98 7383	12246	22 52.4
4	9 42 42.61	5 23.29	14 15 35.3	14 24.8	9.99 9629	11841	22 53.9
5	9 48 5.90	5 42.58	14 1 10.5	17 41.4	0.01 1470	11388	22 55.6
6	9 53 48.48	5 59.57	13 43 29.1	20 52.4	0.02 2858	10892	22 57.7
7	9 59 48.05	6 14.20	13 22 36.7	23 56.0	0.03 3750	10364	22 59.9
8	10 6 2.25	6 26.53	12 58 40.7	26 50.4	0.04 4114	9814	23 2.4
9	10 12 28.78	6 36.65	+12 31 50.3	29 34.4	0.05 3928	9249	23 5.1
10	10 19 5.43	6 44.68	12 2 15.9	32 6.5	0.06 3177	8679	23 7.9
11	10 25 50.11	6 50.75	11 30 9.4	34 26.2	0.07 1856	8107	23 10.8
12	10 32 40.86	6 55.08	10 55 43.2	36 32.8	0.07 9963	7545	23 13.8
13	10 39 35.94	6 57.83	10 19 10.4	38 26.4	0.08 7508	6994	23 16.8
14	10 46 33.77	6 59.23	9 40 44.0	40 7.0	0.09 4502	6459	23 19.9
15	10 53 33.00	6 59.46	+ 9 0 37.0	41 35.0	0.10 0961	5945	23 22.9
16	11 0 32.46	6 58.71	8 19 2.0	42 51.0	0.10 6906	5453	23 26.0
17	11 7 31.17	6 57.17	7 36 11.0	43 55.4	0.11 2359	4983	23 29.0
18	11 14 28.34	6 54.99	6 52 15.6	44 49.3	0.11 7342	4539	23 32.0
19	11 21 23.33	6 52.32	6 7 26.3	45 33.4	0.12 1881	4118	23 34.9
20	11 28 15.65	6 49.27	5 21 52.9	46 8.6	0.12 5999	3720	23 37.8
21	11 35 4.92	6 45.97	+ 4 35 44.3	46 35.4	0.12 9719	3346	23 40.6
22	11 41 50.89	6 42.49	3 49 8.9	46 54.9	0.13 3065	2994	23 43.4
23	11 48 33.38	6 38.93	3 2 14.0	47 7.8	0.13 6059	2663	23 46.1
24	11 55 12.31	6 35.33	2 15 6.2	47 14.6	0.13 8722	2349	23 48.8
25	12 1 47.64	6 31.76	1 27 51.6	47 16.1	0.14 1071	2056	23 51.3
26	12 8 19.40	6 28.24	+ 0 40 35.5	47 12.8	0.14 3127	1777	23 53.9
27	12 14 47.64	6 24.83	− 0 6 37.3	47 5.1	0.14 4904	1514	23 56.4
28	12 21 12.47	6 21.53	0 53 42.4	46 53.6	0.14 6418	1266	23 58.8
29	12 27 34.00	6 18.38	1 40 36.0	46 38.6	0.14 7684	1030	— —
30	12 33 52.38	6 15.37	2 27 14.6	46 20.7	0.14 8714	805	0 1.1
Okt. 1	12 40 7.75	6 12.54	3 13 35.3	45 59.8	0.14 9519	590	0 3.5
2	12 46 20.29	6 9.87	3 59 35.1	45 36.4	0.15 0109	385	0 5.7
3	12 52 30.16	6 7.38	− 4 45 11.5	45 10.8	0.15 0494	187	0 8.0
4	12 58 37.54	6 5.05	5 30 22.3	44 43.1	0.15 0681	3	0 10.1
5	13 4 42.59	6 2.92	6 15 5.4	44 13.4	0.15 0678	187	0 12.3
6	13 10 45.51	6 0.94	6 59 18.8	43 42.0	0.15 0491	367	0 14.4
7	13 16 46.45	5 59.14	7 43 0.8	43 9.0	0.15 0124	540	0 16.5
8	13 22 45.59	5 57.49	8 26 9.8	42 34.5	0.14 9584	711	0 18.5
9	13 28 43.08	5 56.01	− 9 8 44.3	41 58.5	0.14 8873	878	0 20.5
10	13 34 39.09	5 54.68	9 50 42.8	41 21.1	0.14 7995	1043	0 22.5
11	13 40 33.77	5 53.48	10 32 3.9	40 42.4	0.14 6952	1206	0 24.5
12	13 46 27.25	5 52.43	11 12 46.3	40 2.5	0.14 5746	1368	0 26.4
13	13 52 19.68	5 51.50	11 52 48.8	39 21.4	0.14 4378	1530	0 28.4
14	13 58 11.18		12 32 10.2		0.14 2848		0 30.3

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	13 58 11.18	5 50.67	−12 32 10.2	38 38.9	0.14 2848	1692	0 30.3
15	14 4 1.85	5 49.96	13 10 49.1	37 55.3	0.14 1156	1854	0 32.2
16	14 9 51.81	5 49.32	13 48 44.4	37 10.5	0.13 9302	2018	0 34.1
17	14 15 41.13	5 48.76	14 25 54.9	36 24.4	0.13 7284	2183	0 36.0
18	14 21 29.89	5 48.27	15 2 19.3	35 37.1	0.13 5101	2350	0 37.8
19	14 27 18.16	5 47.81	15 37 56.4	34 48.6	0.13 2751	2520	0 39.7
20	14 33 5.97	5 47.39	−16 12 45.0	33 58.8	0.13 0231	2694	0 41.6
21	14 38 53.36	5 46.97	16 46 43.8	33 7.7	0.12 7537	2871	0 43.4
22	14 44 40.33	5 46.53	17 19 51.5	32 15.2	0.12 4666	3052	0 45.3
23	14 50 26.86	5 46.08	17 52 6.7	31 21.4	0.12 1614	3237	0 47.1
24	14 56 12.94	5 45.56	18 23 28.1	30 26.2	0.11 8377	3429	0 48.9
25	15 1 58.50	5 44.96	18 53 54.3	29 29.5	0.11 4948	3626	0 50.7
26	15 7 43.46	5 44.24	−19 23 23.8	28 31.4	0.11 1322	3829	0 52.6
27	15 13 27.70	5 43.40	19 51 55.2	27 31.6	0.10 7493	4040	0 54.3
28	15 19 11.10	5 42.35	20 19 26.8	26 30.2	0.10 3453	4257	0 56.1
29	15 24 53.45	5 41.12	20 45 57.0	25 27.3	0.09 9196	4482	0 57.9
30	15 30 34.57	5 39.59	21 11 24.3	24 22.6	0.09 4714	4716	0 59.6
31	15 36 14.16	5 37.76	21 35 46.9	23 16.1	0.08 9998	4959	1 1.4
Nov. 1	15 41 51.92	5 35.57	−21 59 3.0	22 7.7	0.08 5039	5212	1 3.0
2	15 47 27.49	5 32.95	22 21 10.7	20 57.5	0.07 9827	5475	1 4.7
3	15 53 0.44	5 29.83	22 42 8.2	19 45.3	0.07 4352	5748	1 6.3
4	15 58 30.27	5 26.13	23 1 53.5	18 31.1	0.06 8604	6033	1 7.9
5	16 3 56.40	5 21.78	23 20 24.6	17 14.6	0.06 2571	6329	1 9.3
6	16 9 18.18	5 16.66	23 37 39.2	15 56.1	0.05 6242	6637	1 10.8
7	16 14 34.84	5 10.68	−23 53 35.3	14 35.3	0.04 9605	6956	1 12.1
8	16 19 45.52	5 3.72	24 8 10.6	13 12.1	0.04 2649	7286	1 13.3
9	16 24 49.24	4 55.60	24 21 22.7	11 46.5	0.03 5363	7629	1 14.4
10	16 29 44.84	4 46.21	24 33 9.2	10 18.3	0.02 7734	7981	1 15.4
11	16 34 31.05	4 35.38	24 43 27.5	8 47.4	0.01 9753	8343	1 16.2
12	16 39 6.43	4 22.88	24 52 14.9	7 13.7	0.01 1410	8711	1 16.9
13	16 43 29.31	4 8.54	−24 59 28.6	5 37.0	0.00 2699	9083	1 17.3
14	16 47 37.85	3 52.12	25 5 5.6	3 57.1	9.99 3616	9455	1 17.5
15	16 51 29.97	3 33.37	25 9 2.7	2 13.7	9.98 4161	9820	1 17.4
16	16 55 3.34	3 12.08	25 11 16.4	0 26.6	9.97 4341	10173	1 17.0
17	16 58 15.42	2 47.98	25 11 43.0	1 24.8	9.96 4168	10504	1 16.2
18	17 1 3.40	2 20.85	25 10 18.2	3 20.5	9.95 3664	10797	1 15.1
19	17 3 24.25	1 50.53	−25 6 57.7	5 21.5	9.94 2867	11041	1 13.4
20	17 5 14.78	1 16.87	25 1 36.2	7 27.9	9.93 1826	11216	1 11.3
21	17 6 31.65	0 39.90	24 54 8.3	9 40.2	9.92 0610	11296	1 8.6
22	17 7 11.55	0 0.23	24 44 28.1	11 59.0	9.90 9314	11259	1 5.3
23	17 7 11.32	0 43.15	24 32 29.1	14 23.9	9.89 8055	11073	1 1.4
24	17 6 28.17		24 18 5.2		9.88 6982		0 56.7

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	17 6 28.17	1 28.16	−24 18 5.2	16 54.2	9.88 6982	10705	0 56.7
25	17 5 0.01	2 14.25	24 1 11.0	19 28.3	9.87 6277	10126	0 51.3
26	17 2 45.76	3 0.01	23 41 42.7	22 3.0	9.86 6151	9306	0 45.1
27	16 59 45.75	3 43.65	23 19 39.7	24 33.4	9.85 6845	8228	0 38.2
28	16 56 2.10	4 23.11	22 55 6.3	26 52.6	9.84 8617	6883	0 30.5
29	16 51 38.99	4 56.17	22 28 13.7	28 51.5	9.84 1734	5289	0 22.2
30	16 46 42.82	5 20.71	−21 59 22.2	30 20.2	9.83 6445	3478	0 13.4
Dez. 1	16 41 22.11	5 35.05	21 29 2.0	31 8.8	9.83 2967	1509	{0 4.2 / 23 54.7
2	16 35 47.06	5 38.11	20 57 53.2	31 8.9	9.83 1458	542	23 45.2
3	16 30 8.95	5 29.72	20 26 44.3	30 15.6	9.83 2000	2586	23 35.8
4	16 24 39.23	5 10.52	19 56 28.7	28 28.6	9.83 4586	4536	23 26.7
5	16 19 28.71	4 41.96	19 28 0.1	25 52.5	9.83 9122	6319	23 18.1
6	16 14 46.75	4 6.01	−19 2 7.6	22 35.4	9.84 5441	7873	23 10.1
7	16 10 40.74	3 24.83	18 39 32.2	18 48.9	9.85 3314	9166	23 2.8
8	16 7 15.91	2 40.61	18 20 43.3	14 45.1	9.86 2480	10184	22 56.2
9	16 4 35.30	1 55.23	18 5 58.2	10 35.6	9.87 2664	10935	22 50.3
10	16 2 40.07	1 10.29	17 55 22.6	6 30.4	9.88 3599	11443	22 45.1
11	16 1 29.78	0 26.94	17 48 52.2	2 37.4	9.89 5042	11732	22 40.7
12	16 1 2.84	0 14.01	−17 46 14.8	0 58.0	9.90 6774	11841	22 37.0
13	16 1 16.85	0 52.10	17 47 12.8	4 12.3	9.91 8615	11800	22 33.9
14	16 2 8.95	1 27.07	17 51 25.1	7 3.8	9.93 0415	11642	22 31.4
15	16 3 36.02	1 58.91	17 58 28.9	9 32.1	9.94 2057	11395	22 29.4
16	16 5 34.93	2 27.69	18 8 1.0	11 37.8	9.95 3452	11081	22 27.9
17	16 8 2.62	2 53.58	18 19 38.8	13 22.1	9.96 4533	10721	22 26.8
18	16 10 56.20	3 16.80	−18 33 0.9	14 46.5	9.97 5254	10331	22 26.1
19	16 14 13.00	3 37.60	18 47 47.4	15 52.7	9.98 5585	9922	22 25.8
20	16 17 50.60	3 56.19	19 3 40.1	16 42.6	9.99 5507	9505	22 25.7
21	16 21 46.79	4 12.83	19 20 22.7	17 17.6	0.00 5012	9086	22 26.0
22	16 25 59.62	4 27.73	19 37 40.3	17 39.5	0.01 4098	8672	22 26.5
23	16 30 27.35	4 41.11	19 55 19.8	17 50.0	0.02 2770	8266	22 27.2
24	16 35 8.46	4 53.11	−20 13 9.8	17 49.9	0.03 1036	7870	22 28.2
25	16 40 1.57	5 3.93	20 30 59.7	17 40.8	0.03 8906	7487	22 29.3
26	16 45 5.50	5 13.71	20 48 40.5	17 23.8	0.04 6393	7118	22 30.6
27	16 50 19.21	5 22.56	21 6 4.3	16 59.5	0.05 3511	6762	22 32.0
28	16 55 41.77	5 30.59	21 23 3.8	16 29.0	0.06 0273	6422	22 33.5
29	17 1 12.36	5 37.92	21 39 32.8	15 52.9	0.06 6695	6096	22 35.2
30	17 6 50.28	5 44.61	−21 55 25.7	15 11.9	0.07 2791	5783	22 37.0
31	17 12 34.89	5 50.75	22 10 37.6	14 26.4	0.07 8574	5484	22 38.9
32	17 18 25.64		22 25 4.0		0.08 4058		22 40.9

Tag	Scheinbare Rektaszension (0h mittlere Zeit Greenwich)	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	19 18 46.82	5 25.96	−23 15 0.8	8 41.5	0.22 5929	397	0 42.4
1	19 24 12.78	5 25.19	23 6 19.3	9 24.0	0.22 5532	408	0 43.9
2	19 29 37.97	5 24.37	22 56 55.3	10 6.0	0.22 5124	418	0 45.4
3	19 35 2.34	5 23.50	22 46 49.3	10 47.6	0.22 4706	429	0 46.9
4	19 40 25.84	5 22.58	22 36 1.7	11 28.8	0.22 4277	439	0 48.3
5	19 45 48.42	5 21.61	22 24 32.9	12 9.5	0.22 3838	450	0 49.7
6	19 51 10.03	5 20.60	−22 12 23.4	12 49.6	0.22 3388	461	0 51.1
7	19 56 30.63	5 19.54	21 59 33.8	13 29.1	0.22 2927	471	0 52.5
8	20 1 50.17	5 18.45	21 46 4.7	14 8.2	0.22 2456	482	0 53.9
9	20 7 8.62	5 17.33	21 31 56.5	14 46.6	0.22 1974	493	0 55.3
10	20 12 25.95	5 16.17	21 17 9.9	15 24.5	0.22 1481	503	0 56.7
11	20 17 42.12	5 14.98	21 1 45.4	16 1.7	0.22 0978	513	0 58.0
12	20 22 57.10	5 13.78	−20 45 43.7	16 38.2	0.22 0465	524	0 59.3
13	20 28 10.88	5 12.55	20 29 5.5	17 14.2	0.21 9941	534	1 0.6
14	20 33 23.43	5 11.30	20 11 51.3	17 49.5	0.21 9407	545	1 1.9
15	20 38 34.73	5 10.04	19 54 1.8	18 24.2	0.21 8862	555	1 3.1
16	20 43 44.77	5 8.76	19 35 37.6	18 58.2	0.21 8307	566	1 4.3
17	20 48 53.53	5 7.48	19 16 39.4	19 31.4	0.21 7741	576	1 5.5
18	20 54 1.01	5 6.19	−18 57 8.0	20 3.9	0.21 7165	587	1 6.7
19	20 59 7.20	5 4.89	18 37 4.1	20 35.7	0.21 6578	597	1 7.9
20	21 4 12.09	5 3.60	18 16 28.4	21 6.8	0.21 5981	609	1 9.0
21	21 9 15.69	5 2.29	17 55 21.6	21 37.2	0.21 5372	619	1 10.1
22	21 14 17.98	5 1.00	17 33 44.4	22 6.7	0.21 4753	630	1 11.2
23	21 19 18.98	4 59.72	17 11 37.7	22 35.5	0.21 4123	641	1 12.3
24	21 24 18.70	4 58.43	−16 49 2.2	23 3.6	0.21 3482	653	1 13.4
25	21 29 17.13	4 57.15	16 25 58.6	23 30.9	0.21 2829	664	1 14.4
26	21 34 14.28	4 55.89	16 2 27.7	23 57.4	0.21 2165	676	1 15.4
27	21 39 10.17	4 54.64	15 38 30.3	24 23.1	0.21 1489	687	1 16.4
28	21 44 4.81	4 53.40	15 14 7.2	24 48.1	0.21 0802	699	1 17.3
29	21 48 58.21	4 52.17	14 49 19.1	25 12.2	0.21 0103	711	1 18.3
30	21 53 50.38	4 50.97	−14 24 6.9	25 35.6	0.20 9392	724	1 19.2
31	21 58 41.35	4 49.78	13 58 31.3	25 58.1	0.20 8668	735	1 20.1
Febr. 1	22 3 31.13	4 48.61	13 32 33.2	26 19.9	0.20 7933	748	1 21.0
2	22 8 19.74	4 47.46	13 6 13.3	26 40.8	0.20 7185	761	1 21.9
3	22 13 7.20	4 46.34	12 39 32.5	27 0.9	0.20 6424	773	1 22.7
4	22 17 53.54	4 45.23	12 12 31.6	27 20.3	0.20 5651	786	1 23.5
5	22 22 38.77	4 44.15	−11 45 11.3	27 38.8	0.20 4865	798	1 24.3
6	22 27 22.92	4 43.11	11 17 32.5	27 56.6	0.20 4067	811	1 25.1
7	22 32 6.03	4 42.09	10 49 35.9	28 13.5	0.20 3256	824	1 25.9
8	22 36 48.12	4 41.10	10 21 22.4	28 29.7	0.20 2432	837	1 26.7
9	22 41 29.22	4 40.14	9 52 52.7	28 45.1	0.20 1595	849	1 27.4
10	22 46 9.36		9 24 7.6		0.20 0746		1 28.1

Venus 1919

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	22 46 9.36	4 39.22	−9 24 7.6	28 59.7	0.20 0746	863	1 28.1
11	22 50 48.58	4 38.33	8 55 7.9	29 13.6	0.19 9883	875	1 28.8
12	22 55 26.91	4 37.49	8 25 54.3	29 26.6	0.19 9008	889	1 29.5
13	23 0 4.40	4 36.67	7 56 27.7	29 39.0	0.19 8119	901	1 30.2
14	23 4 41.07	4 35.90	7 26 48.7	29 50.6	0.19 7218	915	1 30.9
15	23 9 16.97	4 35.17	6 56 58.1	30 1.4	0.19 6303	927	1 31.6
16	23 13 52.14	4 34.47	−6 26 56.7	30 11.5	0.19 5376	942	1 32.2
17	23 18 26.61	4 33.83	5 56 45.2	30 20.8	0.19 4434	954	1 32.9
18	23 23 0.44	4 33.22	5 26 24.4	30 29.4	0.19 3480	968	1 33.5
19	23 27 33.66	4 32.65	4 55 55.0	30 37.3	0.19 2512	982	1 34.1
20	23 32 6.31	4 32.12	4 25 17.7	30 44.3	0.19 1530	996	1 34.7
21	23 36 38.43	4 31.64	3 54 33.4	30 50.7	0.19 0534	1010	1 35.3
22	23 41 10.07	4 31.20	−3 23 42.7	30 56.3	0.18 9524	1024	1 35.9
23	23 45 41.27	4 30.80	2 52 46.4	31 1.2	0.18 8500	1039	1 36.5
24	23 50 12.07	4 30.44	2 21 45.2	31 5.3	0.18 7461	1054	1 37.0
25	23 54 42.51	4 30.13	1 50 39.9	31 8.6	0.18 6407	1068	1 37.6
26	23 59 12.64	4 29.86	1 19 31.3	31 11.3	0.18 5339	1084	1 38.1
27	0 3 42.50	4 29.63	0 48 20.0	31 13.2	0.18 4255	1099	1 38.7
28	0 8 12.13	4 29.44	−0 17 6.8	31 14.3	0.18 3156	1115	1 39.2
März 1	0 12 41.57	4 29.30	+0 14 7.5	31 14.7	0.18 2041	1131	1 39.8
2	0 17 10.87	4 29.18	0 45 22.2	31 14.3	0.18 0910	1146	1 40.3
3	0 21 40.05	4 29.12	1 16 36.5	31 13.1	0.17 9764	1163	1 40.9
4	0 26 9.17	4 29.09	1 47 49.6	31 11.3	0.17 8601	1179	1 41.4
5	0 30 38.26	4 29.09	2 19 0.9	31 8.6	0.17 7422	1196	1 42.0
6	0 35 7.35	4 29.14	+2 50 9.5	31 5.3	0.17 6226	1213	1 42.5
7	0 39 36.49	4 29.23	3 21 14.8	31 1.1	0.17 5013	1229	1 43.0
8	0 44 5.72	4 29.36	3 52 15.9	30 56.3	0.17 3784	1246	1 43.6
9	0 48 35.08	4 29.52	4 23 12.2	30 50.6	0.17 2538	1264	1 44.1
10	0 53 4.60	4 29.72	4 54 2.8	30 44.4	0.17 1274	1280	1 44.7
11	0 57 34.32	4 29.96	5 24 47.2	30 37.3	0.16 9994	1297	1 45.2
12	1 2 4.28	4 30.25	+5 55 24.5	30 29.5	0.16 8697	1315	1 45.8
13	1 6 34.53	4 30.58	6 25 54.0	30 21.0	0.16 7382	1332	1 46.4
14	1 11 5.11	4 30.94	6 56 15.0	30 11.8	0.16 6050	1350	1 46.9
15	1 15 36.05	4 31.34	7 26 26.8	30 1.8	0.16 4700	1367	1 47.5
16	1 20 7.39	4 31.78	7 56 28.6	29 51.2	0.16 3333	1385	1 48.1
17	1 24 39.17	4 32.26	8 26 19.8	29 39.8	0.16 1948	1402	1 48.7
18	1 29 11.43	4 32.77	+8 55 59.6	29 27.7	0.16 0546	1421	1 49.3
19	1 33 44.20	4 33.33	9 25 27.3	29 14.8	0.15 9125	1439	1 49.9
20	1 38 17.53	4 33.92	9 54 42.1	29 1.2	0.15 7686	1458	1 50.5
21	1 42 51.45	4 34.55	10 23 43.3	28 46.9	0.15 6228	1476	1 51.1
22	1 47 26.00	4 35.20	10 52 30.2	28 31.9	0.15 4752	1495	1 51.7
23	1 52 1.20		11 21 2.1		0.15 3257		1 52.4

Tag	0ʰ mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
März 23	1 52 1.20	4 35.89	+11 21 2.1	28 16.1	0.15 3257	1514	1 52.4
24	1 56 37.09	4 36.62	11 49 18.2	27 59.6	0.15 1743	1534	1 53.0
25	2 1 13.71	4 37.36	12 17 17.8	27 42.4	0.15 0209	1553	1 53.7
26	2 5 51.07	4 38.14	12 45 0.2	27 24.4	0.14 8656	1573	1 54.4
27	2 10 29.21	4 38.95	13 12 24.6	27 5.6	0.14 7083	1593	1 55.1
28	2 15 8.16	4 39.78	13 39 30.2	26 46.2	0.14 5490	1614	1 55.8
29	2 19 47.94	4 40.63	+14 6 16.4	26 26.0	0.14 3876	1634	1 56.5
30	2 24 28.57	4 41.50	14 32 42.4	26 5.1	0.14 2242	1656	1 57.2
31	2 29 10.07	4 42.40	14 58 47.5	25 43.4	0.14 0586	1677	1 58.0
April 1	2 33 52.47	4 43.30	15 24 30.9	25 20.9	0.13 8909	1698	1 58.8
2	2 38 35.77	4 44.21	15 49 51.8	24 57.7	0.13 7211	1721	1 59.5
3	2 43 19.98	4 45.14	16 14 49.5	24 33.8	0.13 5490	1743	2 0.3
4	2 48 5.12	4 46.08	+16 39 23.3	24 9.2	0.13 3747	1765	2 1.1
5	2 52 51.20	4 47.02	17 3 32.5	23 43.8	0.13 1982	1787	2 2.0
6	2 57 38.22	4 47.97	17 27 16.3	23 17.7	0.13 0195	1810	2 2.8
7	3 2 26.19	4 48.92	17 50 34.0	22 51.0	0.12 8385	1833	2 3.7
8	3 7 15.11	4 49.87	18 13 25.0	22 23.5	0.12 6552	1856	2 4.6
9	3 12 4.98	4 50.83	18 35 48.5	21 55.3	0.12 4696	1879	2 5.5
10	3 16 55.81	4 51.78	+18 57 43.8	21 26.5	0.12 2817	1902	2 6.4
11	3 21 47.59	4 52.73	19 19 10.3	20 57.0	0.12 0915	1925	2 7.3
12	3 26 40.32	4 53.68	19 40 7.3	20 26.8	0.11 8990	1948	2 8.2
13	3 31 34.00	4 54.62	20 0 34.1	19 55.9	0.11 7042	1973	2 9.1
14	3 36 28.62	4 55.55	20 20 30.0	19 24.4	0.11 5069	1996	2 10.1
15	3 41 24.17	4 56.47	20 39 54.4	18 52.3	0.11 3073	2020	2 11.1
16	3 46 20.64	4 57.37	+20 58 46.7	18 19.6	0.11 1053	2045	2 12.1
17	3 51 18.01	4 58.26	21 17 6.3	17 46.2	0.10 9008	2069	2 13.1
18	3 56 16.27	4 59.14	21 34 52.5	17 12.3	0.10 6939	2093	2 14.1
19	4 1 15.41	4 59.98	21 52 4.8	16 37.8	0.10 4846	2119	2 15.2
20	4 6 15.39	5 0.81	22 8 42.6	16 2.7	0.10 2727	2143	2 16.3
21	4 11 16.20	5 1.61	22 24 45.3	15 27.1	0.10 0584	2169	2 17.3
22	4 16 17.81	5 2.38	+22 40 12.4	14 50.9	0.09 8415	2195	2 18.4
23	4 21 20.19	5 3.11	22 55 3.3	14 14.2	0.09 6220	2221	2 19.5
24	4 26 23.30	5 3.82	23 9 17.5	13 37.1	0.09 3999	2247	2 20.6
25	4 31 27.12	5 4.48	23 22 54.6	12 59.4	0.09 1752	2273	2 21.8
26	4 36 31.60	5 5.10	23 35 54.0	12 21.4	0.08 9479	2301	2 22.9
27	4 41 36.70	5 5.68	23 48 15.4	11 42.9	0.08 7178	2328	2 24.1
28	4 46 42.38	5 6.21	+23 59 58.3	11 3.9	0.08 4850	2356	2 25.2
29	4 51 48.59	5 6.69	24 11 2.2	10 24.7	0.08 2494	2384	2 26.3
30	4 56 55.28	5 7.11	24 21 26.9	9 45.0	0.08 0110	2413	2 27.5
Mai 1	5 2 2.39	5 7.47	24 31 11.9	9 5.0	0.07 7697	2442	2 28.7
2	5 7 9.86	5 7.78	24 40 16.9	8 24.8	0.07 5255	2471	2 29.9
3	5 12 17.64		24 48 41.7		0.07 2784		2 31.1

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension	Diff.	0h mittlere Zeit Greenwich: Scheinbare Deklination	Diff.	0h mittlere Zeit Greenwich: log Δ	Diff.	Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Mai 3	5 12 17.64	5 8.02	+24 48 41.7	7 44.3	0.07 2784	2500	2 31.1
4	5 17 25.66	5 8.19	24 56 26.0	7 3.5	0.07 0284	2531	2 32.3
5	5 22 33.85	5 8.30	25 3 29.5	6 22.5	0.06 7753	2560	2 33.5
6	5 27 42.15	5 8.35	25 9 52.0	5 41.4	0.06 5193	2590	2 34.7
7	5 32 50.50	5 8.33	25 15 33.4	5 0.1	0.06 2603	2620	2 35.9
8	5 37 58.83	5 8.24	25 20 33.5	4 18.7	0.05 9983	2652	2 37.1
9	5 43 7.07	5 8.09	+25 24 52.2	3 37.2	0.05 7331	2682	2 38.3
10	5 48 15.16	5 7.87	25 28 29.4	2 55.7	0.05 4649	2713	2 39.5
11	5 53 23.03	5 7.58	25 31 25.1	2 14.1	0.05 1936	2744	2 40.6
12	5 58 30.61	5 7.21	25 33 39.2	1 32.6	0.04 9192	2775	2 41.8
13	6 3 37.82	5 6.77	25 35 11.8	0 51.1	0.04 6417	2808	2 43.0
14	6 8 44.59	5 6.28	25 36 2.9	0 9.6	0.04 3609	2839	2 44.2
15	6 13 50.87	5 5.71	+25 36 12.5	0 31.7	0.04 0770	2871	2 45.3
16	6 18 56.58	5 5.08	25 35 40.8	1 12.8	0.03 7899	2903	2 46.5
17	6 24 1.66	5 4.38	25 34 28.0	1 53.9	0.03 4996	2937	2 47.6
18	6 29 6.04	5 3.63	25 32 34.1	2 34.7	0.03 2059	2969	2 48.8
19	6 34 9.67	5 2.80	25 29 59.4	3 15.4	0.02 9090	3003	2 49.9
20	6 39 12.47	5 1.91	25 26 44.0	3 55.7	0.02 6087	3036	2 51.0
21	6 44 14.38	5 0.95	+25 22 48.3	4 35.8	0.02 3051	3070	2 52.1
22	6 49 15.33	4 59.94	25 18 12.5	5 15.6	0.01 9981	3105	2 53.1
23	6 54 15.27	4 58.86	25 12 56.9	5 55.1	0.01 6876	3139	2 54.2
24	6 59 14.13	4 57.72	25 7 1.8	6 34.1	0.01 3737	3175	2 55.2
25	7 4 11.85	4 56.52	25 0 27.7	7 12.9	0.01 0562	3211	2 56.2
26	7 9 8.37	4 55.26	24 53 14.8	7 51.1	0.00 7351	3246	2 57.2
27	7 14 3.63	4 53.95	+24 45 23.7	8 28.9	0.00 4105	3284	2 58.2
28	7 18 57.58	4 52.56	24 36 54.8	9 6.2	0.00 0821	3321	2 59.2
29	7 23 50.14	4 51.13	24 27 48.6	9 43.1	9.99 7500	3359	3 0.1
30	7 28 41.27	4 49.64	24 18 5.5	10 19.4	9.99 4141	3397	3 1.0
31	7 33 30.91	4 48.08	24 7 46.1	10 55.1	9.99 0744	3437	3 1.9
Juni 1	7 38 18.99	4 46.47	23 56 51.0	11 30.3	9.98 7307	3475	3 2.8
2	7 43 5.46	4 44.81	+23 45 20.7	12 4.8	9.98 3832	3515	3 3.6
3	7 47 50.27	4 43.10	23 33 15.9	12 38.8	9.98 0317	3555	3 4.4
4	7 52 33.37	4 41.34	23 20 37.1	13 12.1	9.97 6762	3595	3 5.2
5	7 57 14.71	4 39.54	23 7 25.0	13 44.8	9.97 3167	3636	3 5.9
6	8 1 54.25	4 37.69	22 53 40.2	14 16.8	9.96 9531	3678	3 6.6
7	8 6 31.94	4 35.80	22 39 23.4	14 48.2	9.96 5853	3718	3 7.3
8	8 11 7.74	4 33.87	+22 24 35.2	15 18.8	9.96 2135	3761	3 7.9
9	8 15 41.61	4 31.90	22 9 16.4	15 48.9	9.95 8374	3802	3 8.6
10	8 20 13.51	4 29.90	21 53 27.5	16 18.2	9.95 4572	3845	3 9.2
11	8 24 43.41	4 27.87	21 37 9.3	16 46.8	9.95 0727	3887	3 9.7
12	8 29 11.28	4 25.80	21 20 22.5	17 14.7	9.94 6840	3931	3 10.2
13	8 33 37.08		21 3 7.8		9.94 2909		3 10.7

Tag	0h mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919	h m s	m s	° ′ ″	′ ″			h m
Juni 13	8 33 37.08	4 23.72	+21 3 7.8	17 41.9	9.94 2909	3974	3 10.7
14	8 38 0.80	4 21.60	20 45 25.9	18 8.4	9.93 8935	4018	3 11.1
15	8 42 22.40	4 19.46	20 27 17.5	18 34.1	9.93 4917	4063	3 11.6
16	8 46 41.86	4 17.30	20 8 43.4	18 59.1	9.93 0854	4107	3 11.9
17	8 50 59.16	4 15.12	19 49 44.3	19 23.4	9.92 6747	4152	3 12.3
18	8 55 14.28	4 12.91	19 30 20.9	19 46.9	9.92 2595	4198	3 12.6
19	8 59 27.19	4 10.69	+19 10 34.0	20 9.8	9.91 8397	4244	3 12.9
20	9 3 37.88	4 8.45	18 50 24.2	20 31.8	9.91 4153	4290	3 13.1
21	9 7 46.33	4 6.20	18 29 52.4	20 53.2	9.90 9863	4339	3 13.3
22	9 11 52.53	4 3.93	18 8 59.2	21 13.7	9.90 5524	4386	3 13.4
23	9 15 56.46	4 1.63	17 47 45.5	21 33.5	9.90 1138	4434	3 13.5
24	9 19 58.09	3 59.32	17 26 12.0	21 52.4	9.89 6704	4485	3 13.6
25	9 23 57.41	3 56.99	+17 4 19.6	22 10.7	9.89 2219	4534	3 13.6
26	9 27 54.40	3 54.63	16 42 8.9	22 28.1	9.88 7685	4585	3 13.6
27	9 31 49.03	3 52.26	16 19 40.8	22 44.7	9.88 3100	4637	3 13.6
28	9 35 41.29	3 49.85	15 56 56.1	23 0.5	9.87 8463	4689	3 13.5
29	9 39 31.14	3 47.41	15 33 55.6	23 15.4	9.87 3774	4743	3 13.4
30	9 43 18.55	3 44.95	15 10 40.2	23 29.6	9.86 9031	4796	3 13.2
Juli 1	9 47 3.50	3 42.46	+14 47 10.6	23 42.8	9.86 4235	4850	3 13.0
2	9 50 45.96	3 39.94	14 23 27.8	23 55.3	9.85 9385	4904	3 12.8
3	9 54 25.90	3 37.38	13 59 32.5	24 6.9	9.85 4481	4960	3 12.5
4	9 58 3.28	3 34.80	13 35 25.6	24 17.7	9.84 9521	5016	3 12.2
5	10 1 38.08	3 32.18	13 11 7.9	24 27.7	9.84 4505	5072	3 11.8
6	10 5 10.26	3 29.52	12 46 40.2	24 36.8	9.83 9433	5128	3 11.4
7	10 8 39.78	3 26.83	+12 22 3.4	24 45.1	9.83 4305	5185	3 11.0
8	10 12 6.61	3 24.10	11 57 18.3	24 52.6	9.82 9120	5243	3 10.5
9	10 15 30.71	3 21.33	11 32 25.7	24 59.3	9.82 3877	5300	3 9.9
10	10 18 52.04	3 18.53	11 7 26.4	25 5.1	9.81 8577	5358	3 9.3
11	10 22 10.57	3 15.68	10 42 21.3	25 10.0	9.81 3219	5417	3 8.7
12	10 25 26.25	3 12.78	10 17 11.3	25 14.2	9.80 7802	5474	3 8.0
13	10 28 39.03	3 9.85	+ 9 51 57.1	25 17.4	9.80 2328	5534	3 7.3
14	10 31 48.88	3 6.86	9 26 39.7	25 20.0	9.79 6794	5592	3 6.5
15	10 34 55.74	3 3.82	9 1 19.7	25 21.5	9.79 1202	5651	3 5.7
16	10 37 59.56	3 0.72	8 35 58.2	25 22.3	9.78 5551	5711	3 4.8
17	10 41 0.28	2 57.58	8 10 35.9	25 22.1	9.77 9840	5770	3 3.8
18	10 43 57.86	2 54.37	7 45 13.8	25 21.1	9.77 4070	5830	3 2.8
19	10 46 52.23	2 51.09	+ 7 19 52.7	25 19.3	9.76 8240	5889	3 1.8
20	10 49 43.32	2 47.76	6 54 33.4	25 16.4	9.76 2351	5949	3 0.7
21	10 52 31.08	2 44.34	6 29 17.0	25 12.7	9.75 6402	6010	2 59.6
22	10 55 15.42	2 40.85	6 4 4.3	25 7.9	9.75 0392	6069	2 58.4
23	10 57 56.27	2 37.26	5 38 56.4	25 2.2	9.74 4323	6130	2 57.1
24	11 0 33.53		5 13 54.2		9.73 8193		2 55.8

Tag		0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919		h m s	m s	° ′ ″	′ ″			h m
Juli	24	11 0 33.53	2 33.59	+5 13 54.2	24 55.4	9.73 8193	6190	2 55.8
	25	11 3 7.12	2 29.81	4 48 58.8	24 47.6	9.73 2003	6250	2 54.4
	26	11 5 36.93	2 25.93	4 24 11.2	24 38.6	9.72 5753	6310	2 52.9
	27	11 8 2.86	2 21.91	3 59 32.6	24 28.5	9.71 9443	6369	2 51.4
	28	11 10 24.77	2 17.78	3 35 4.1	24 17.1	9.71 3074	6427	2 49.8
	29	11 12 42.55	2 13.52	3 10 47.0	24 4.5	9.70 6647	6486	2 48.1
	30	11 14 56.07	2 9.11	+2 46 42.5	23 50.6	9.70 0161	6542	2 46.4
	31	11 17 5.18	2 4.57	2 22 51.9	23 35.5	9.69 3619	6596	2 44.6
Aug.	1	11 19 9.75	1 59.87	1 59 16.4	23 18.9	9.68 7023	6651	2 42.7
	2	11 21 9.62	1 55.01	1 35 57.5	23 1.0	9.68 0372	6701	2 40.8
	3	11 23 4.63	1 49.98	1 12 56.5	22 41.6	9.67 3671	6750	2 38.8
	4	11 24 54.61	1 44.79	0 50 14.9	22 20.7	9.66 6921	6796	2 36.7
	5	11 26 39.40	1 39.43	+0 27 54.2	21 58.2	9.66 0125	6840	2 34.5
	6	11 28 18.83	1 33.89	+0 5 56.0	21 34.1	9.65 3285	6878	2 32.2
	7	11 29 52.72	1 28.15	−0 15 38.1	21 8.3	9.64 6407	6914	2 29.8
	8	11 31 20.87	1 22.24	0 36 46.4	20 40.8	9.63 9493	6946	2 27.3
	9	11 32 43.11	1 16.14	0 57 27.2	20 11.4	9.63 2547	6971	2 24.7
	10	11 33 59.25	1 9.84	1 17 38.6	19 40.2	9.62 5576	6991	2 22.0
	11	11 35 9.09	1 3.35	−1 37 18.8	19 7.0	9.61 8585	7006	2 19.2
	12	11 36 12.44	0 56.68	1 56 25.8	18 31.7	9.61 1579	7014	2 16.3
	13	11 37 9.12	0 49.82	2 14 57.5	17 54.5	9.60 4565	7014	2 13.4
	14	11 37 58.94	0 42.77	2 32 52.0	17 15.1	9.59 7551	7007	2 10.3
	15	11 38 41.71	0 35.54	2 50 7.1	16 33.5	9.59 0544	6991	2 7.0
	16	11 39 17.25	0 28.15	3 6 40.6	15 49.5	9.58 3553	6966	2 3.7
	17	11 39 45.40	0 20.60	−3 22 30.1	15 3.3	9.57 6587	6932	2 0.2
	18	11 40 6.00	0 12.87	3 37 33.4	14 14.4	9.56 9655	6885	1 56.6
	19	11 40 18.87	0 5.00	3 51 47.8	13 23.1	9.56 2770	6828	1 52.9
	20	11 40 23.87	0 3.00	4 5 10.9	12 29.1	9.55 5942	6759	1 49.0
	21	11 40 20.87	0 11.10	4 17 40.0	11 32.8	9.54 9183	6676	1 45.0
	22	11 40 9.77	0 19.33	4 29 12.8	10 33.5	9.54 2507	6580	1 40.9
	23	11 39 50.44	0 27.62	−4 39 46.3	9 31.5	9.53 5927	6467	1 36.6
	24	11 39 22.82	0 35.94	4 49 17.8	8 26.9	9.52 9460	6340	1 32.2
	25	11 38 46.88	0 44.27	4 57 44.7	7 19.9	9.52 3120	6196	1 27.7
	26	11 38 2.61	0 52.59	5 5 4.6	6 10.2	9.51 6924	6032	1 23.0
	27	11 37 10.02	1 0.82	5 11 14.8	4 58.0	9.51 0892	5849	1 18.2
	28	11 36 9.20	1 8.92	5 16 12.8	3 43.7	9.50 5043	5648	1 13.3
	29	11 35 0.28	1 16.87	−5 19 56.5	2 27.2	9.49 9395	5426	1 8.2
	30	11 33 43.41	1 24.57	5 22 23.7	1 9.2	9.49 3969	5183	1 3.0
	31	11 32 18.84	1 32.00	5 23 32.9	0 10.3	9.48 8786	4920	0 57.6
Sept.	1	11 30 46.84	1 38.98	5 23 22.6	1 30.6	9.48 3866	4633	0 52.2
	2	11 29 7.86	1 45.62	5 21 52.0	2 51.7	9.47 9233	4328	0 46.6
	3	11 27 22.24		5 19 0.3		9.47 4905		0 40.9

Tag	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
	0h mittlere Zeit Greenwich						
1919	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	11 27 22.24	1 51.72	−5 19 0.3	4 12.9	9.47 4905	4001	0 40.9
4	11 25 30.52	1 57.28	5 14 47.4	5 33.6	9.47 0904	3653	0 35.1
5	11 23 33.24	2 2.19	5 9 13.8	6 53.2	9.46 7251	3288	0 29.3
6	11 21 31.05	2 6.43	5 2 20.6	8 11.3	9.46 3963	2903	0 23.3
7	11 19 24.62	2 9.93	4 54 9.3	9 26.8	9.46 1060	2504	0 17.3
8	11 17 14.69	2 12.61	4 44 42.5	10 39.3	9.45 8556	2090	0 11.2
9	11 15 2.08	2 14.47	−4 34 3.2	11 48.2	9.45 6466	1664	0 5.1 / 23 58.9
10	11 12 47.61	2 15.46	4 22 15.0	12 53.1	9.45 4802	1228	23 52.7
11	11 10 32.15	2 15.56	4 9 21.9	13 53.1	9.45 3574	785	23 46.6
12	11 8 16.59	2 14.77	3 55 28.8	14 47.8	9.45 2789	340	23 40.4
13	11 6 1.82	2 13.08	3 40 41.0	15 36.7	9.45 2449	107	23 34.3
14	11 3 48.74	2 10.53	3 25 4.3	16 19.5	9.45 2556	552	23 28.2
15	11 1 38.21	2 7.14	−3 8 44.8	16 55.8	9.45 3108	991	23 22.2
16	10 59 31.07	2 2.94	2 51 49.0	17 25.5	9.45 4099	1425	23 16.2
17	10 57 28.13	1 58.00	2 34 23.5	17 48.7	9.45 5524	1846	23 10.3
18	10 55 30.13	1 52.34	2 16 34.8	18 5.5	9.45 7370	2257	23 4.5
19	10 53 37.79	1 46.07	1 58 29.3	18 15.6	9.45 9627	2652	22 58.8
20	10 51 51.72	1 39.21	1 40 13.7	18 19.2	9.46 2279	3033	22 53.2
21	10 50 12.51	1 31.84	−1 21 54.5	18 16.9	9.46 5312	3395	22 47.7
22	10 48 40.67	1 24.01	1 3 37.6	18 8.6	9.46 8707	3740	22 42.4
23	10 47 16.66	1 15.83	0 45 29.0	17 55.0	9.47 2447	4065	22 37.2
24	10 46 0.83	1 7.32	0 27 34.0	17 36.0	9.47 6512	4369	22 32.2
25	10 44 53.51	0 58.56	−0 9 58.0	17 12.4	9.48 0881	4654	22 27.3
26	10 43 54.95	0 49.60	+0 7 14.4	16 44.2	9.48 5535	4918	22 22.5
27	10 43 5.35	0 40.50	+0 23 58.6	16 12.0	9.49 0453	5162	22 17.9
28	10 42 24.85	0 31.31	0 40 10.6	15 36.2	9.49 5615	5386	22 13.4
29	10 41 53.54	0 22.08	0 55 46.8	14 57.2	9.50 1001	5589	22 9.1
30	10 41 31.46	0 12.86	1 10 44.0	14 15.5	9.50 6590	5775	22 4.9
Okt. 1	10 41 18.60	0 3.68	1 24 59.5	13 31.3	9.51 2365	5940	22 0.9
2	10 41 14.92	0 5.43	1 38 30.8	12 44.9	9.51 8305	6088	21 57.1
3	10 41 20.35	0 14.43	+1 51 15.7	11 56.7	9.52 4393	6219	21 53.4
4	10 41 34.78	0 23.29	2 3 12.4	11 7.2	9.53 0612	6334	21 49.8
5	10 41 58.07	0 31.99	2 14 19.6	10 16.4	9.53 6946	6434	21 46.4
6	10 42 30.06	0 40.51	2 24 36.0	9 24.8	9.54 3380	6519	21 43.1
7	10 43 10.57	0 48.86	2 34 0.8	8 32.3	9.54 9899	6590	21 40.0
8	10 43 59.43	0 57.00	2 42 33.1	7 39.4	9.55 6489	6648	21 37.0
9	10 44 56.43	1 4.90	+2 50 12.5	6 46.3	9.56 3137	6695	21 34.1
10	10 46 1.33	1 12.60	2 56 58.8	5 53.1	9.56 9832	6730	21 31.4
11	10 47 13.93	1 20.05	3 2 51.9	4 59.9	9.57 6562	6755	21 28.8
12	10 48 33.98	1 27.28	3 7 51.8	4 7.0	9.58 3317	6770	21 26.3
13	10 50 1.26	1 34.24	3 11 58.8	3 14.5	9.59 0087	6776	21 23.9
14	10 51 35.50		3 15 13.3		9.59 6863		21 21.6

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	10 51 35.50	1 40.95	+3 15 13.3	2 22.6	9.59 6863	6774	21 21.6
15	10 53 16.45	1 47.42	3 17 35.9	1 31.2	9.60 3637	6764	21 19.5
16	10 55 3.87	1 53.63	3 19 7.1	0 40.6	9.61 0401	6748	21 17.4
17	10 56 57.50	1 59.60	3 19 47.7	0 9.2	9.61 7149	6727	21 15.5
18	10 58 57.10	2 5.32	3 19 38.5	0 58.3	9.62 3876	6700	21 13.6
19	11 1 2.42	2 10.81	3 18 40.2	1 46.4	9.63 0576	6668	21 11.8
20	11 3 13.23	2 16.07	+3 16 53.8	2 33.6	9.63 7244	6633	21 10.1
21	11 5 29.30	2 21.10	3 14 20.2	3 20.0	9.64 3877	6593	21 8.5
22	11 7 50.40	2 25.93	3 11 0.2	4 5.3	9.65 0470	6552	21 7.0
23	11 10 16.33	2 30.54	3 6 54.9	4 49.7	9.65 7022	6506	21 5.6
24	11 12 46.87	2 34.95	3 2 5.2	5 33.1	9.66 3528	6459	21 4.2
25	11 15 21.82	2 39.18	2 56 32.1	6 15.5	9.66 9987	6410	21 2.9
26	11 18 1.00	2 43.23	+2 50 16.6	6 57.0	9.67 6397	6359	21 1.7
27	11 20 44.23	2 47.12	2 43 19.6	7 37.4	9.68 2756	6307	21 0.5
28	11 23 31.35	2 50.83	2 35 42.2	8 16.9	9.68 9063	6253	20 59.4
29	11 26 22.18	2 54.39	2 27 25.3	8 55.5	9.69 5316	6199	20 58.4
30	11 29 16.57	2 57.81	2 18 29.8	9 33.0	9.70 1515	6143	20 57.4
31	11 32 14.38	3 1.08	2 8 56.8	10 9.5	9.70 7658	6087	20 56.5
Nov. 1	11 35 15.46	3 4.22	+1 58 47.3	10 45.1	9.71 3745	6031	20 55.6
2	11 38 19.68	3 7.24	1 48 2.2	11 19.7	9.71 9776	5973	20 54.8
3	11 41 26.92	3 10.15	1 36 42.5	11 53.5	9.72 5749	5917	20 54.0
4	11 44 37.07	3 12.94	1 24 49.0	12 26.2	9.73 1666	5859	20 53.3
5	11 47 50.01	3 15.64	1 12 22.8	12 58.1	9.73 7525	5801	20 52.6
6	11 51 5.65	3 18.24	0 59 24.7	13 28.8	9.74 3326	5743	20 51.9
7	11 54 23.89	3 20.75	+0 45 55.9	13 58.7	9.74 9069	5685	20 51.3
8	11 57 44.64	3 23.16	0 31 57.2	14 27.4	9.75 4754	5627	20 50.8
9	12 1 7.80	3 25.51	0 17 29.8	14 55.4	9.76 0381	5568	20 50.3
10	12 4 33.31	3 27.76	+0 2 34.4	15 22.4	9.76 5949	5510	20 49.8
11	12 8 1.07	3 29.95	−0 12 48.0	15 48.2	9.77 1459	5451	20 49.3
12	12 11 31.02	3 32.04	0 28 36.2	16 13.0	9.77 6910	5394	20 48.9
13	12 15 3.06	3 34.08	−0 44 49.2	16 36.9	9.78 2304	5334	20 48.5
14	12 18 37.14	3 36.04	1 1 26.1	16 59.8	9.78 7638	5277	20 48.2
15	12 22 13.18	3 37.94	1 18 25.9	17 21.7	9.79 2915	5219	20 47.9
16	12 25 51.12	3 39.78	1 35 47.6	17 42.6	9.79 8134	5162	20 47.6
17	12 29 30.90	3 41.55	1 53 30.2	18 2.3	9.80 3296	5106	20 47.3
18	12 33 12.45	3 43.29	2 11 32.5	18 21.2	9.80 8402	5049	20 47.1
19	12 36 55.74	3 44.97	−2 29 53.7	18 39.2	9.81 3451	4993	20 46.9
20	12 40 40.71	3 46.60	2 48 32.9	18 56.1	9.81 8444	4939	20 46.7
21	12 44 27.31	3 48.20	3 7 29.0	19 12.0	9.82 3383	4884	20 46.6
22	12 48 15.51	3 49.76	3 26 41.0	19 27.0	9.82 8267	4831	20 46.5
23	12 52 5.27	3 51.29	3 46 8.0	19 41.1	9.83 3098	4778	20 46.4
24	12 55 56.56		4 5 49.1		9.83 7876		20 46.3

Tag	0h mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	12 55 56.56	3 52.79	− 4 5 49.1	19 54.2	9.83 7876	4725	20 46.3
25	12 59 49.35	3 54.26	4 25 43.3	20 6.3	9.84 2601	4675	20 46.3
26	13 3 43.61	3 55.72	4 45 49.6	20 17.6	9.84 7276	4624	20 46.3
27	13 7 39.33	3 57.14	5 6 7.2	20 27.9	9.85 1900	4574	20 46.3
28	13 11 36.47	3 58.56	5 26 35.1	20 37.4	9.85 6474	4525	20 46.3
29	13 15 35.03	3 59.96	5 47 12.5	20 45.8	9.86 0999	4476	20 46.3
30	13 19 34.99	4 1.35	− 6 7 58.3	20 53.5	9.86 5475	4428	20 46.4
Dez. 1	13 23 36.34	4 2.73	6 28 51.8	21 0.1	9.86 9903	4382	20 46.5
2	13 27 39.07	4 4.11	6 49 51.9	21 6.0	9.87 4285	4334	20 46.6
3	13 31 43.18	4 5.48	7 10 57.9	21 10.9	9.87 8619	4290	20 46.8
4	13 35 48.66	4 6.86	7 32 8.8	21 14.9	9.88 2909	4244	20 47.0
5	13 39 55.52	4 8.24	7 53 23.7	21 18.0	9.88 7153	4199	20 47.2
6	13 44 3.76	4 9.61	− 8 14 41.7	21 20.3	9.89 1352	4155	20 47.4
7	13 48 13.37	4 10.99	8 36 2.0	21 21.6	9.89 5507	4112	20 47.6
8	13 52 24.36	4 12.38	8 57 23.6	21 22.0	9.89 9619	4068	20 47.9
9	13 56 36.74	4 13.75	9 18 45.6	21 21.6	9.90 3687	4024	20 48.2
10	14 0 50.49	4 15.13	9 40 7.2	21 20.1	9.90 7711	3983	20 48.5
11	14 5 5.62	4 16.52	10 1 27.3	21 17.8	9.91 1694	3939	20 48.8
12	14 9 22.14	4 17.90	−10 22 45.1	21 14.5	9.91 5633	3898	20 49.1
13	14 13 40.04	4 19.27	10 43 59.6	21 10.4	9.91 9531	3857	20 49.5
14	14 17 59.31	4 20.65	11 5 10.0	21 5.2	9.92 3388	3815	20 49.9
15	14 22 19.96	4 22.02	11 26 15.2	20 59.2	9.92 7203	3775	20 50.3
16	14 26 41.98	4 23.39	11 47 14.4	20 52.2	9.93 0978	3734	20 50.8
17	14 31 5.37	4 24.76	12 8 6.6	20 44.4	9.93 4712	3695	20 51.3
18	14 35 30.13	4 26.12	−12 28 51.0	20 35.6	9.93 8407	3656	20 51.8
19	14 39 56.25	4 27.50	12 49 26.6	20 26.0	9.94 2063	3617	20 52.3
20	14 44 23.75	4 28.86	13 9 52.6	20 15.5	9.94 5680	3580	20 52.8
21	14 48 52.61	4 30.23	13 30 8.1	20 4.0	9.94 9260	3542	20 53.3
22	14 53 22.84	4 31.59	13 50 12.1	19 51.7	9.95 2802	3505	20 53.9
23	14 57 54.43	4 32.95	14 10 3.8	19 38.6	9.95 6307	3468	20 54.5
24	15 2 27.38	4 34.32	−14 29 42.4	19 24.5	9.95 9775	3433	20 55.1
25	15 7 1.70	4 35.67	14 49 6.9	19 9.6	9.96 3208	3397	20 55.8
26	15 11 37.37	4 37.03	15 8 16.5	18 53.8	9.96 6605	3363	20 56.5
27	15 16 14.40	4 38.38	15 27 10.3	18 37.2	9.96 9968	3328	20 57.2
28	15 20 52.78	4 39.74	15 45 47.5	18 19.8	9.97 3296	3295	20 57.9
29	15 25 32.52	4 41.09	16 4 7.3	18 1.5	9.97 6591	3262	20 58.6
30	15 30 13.61	4 42.43	−16 22 8.8	17 42.4	9.97 9853	3229	20 59.4
31	15 34 56.04	4 43.78	16 39 51.2	17 22.5	9.98 3082	3198	21 0.2
32	15 39 39.82		16 57 13.7		9.98 6280		21 1.0

Tag	0h mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	20 45 55.97	3 12.38	—19 12 55.4	12 47.6	0.33 1798	637	2 9.5
1	20 49 8.35	3 11.96	19 0 7.8	12 59.9	0.33 2435	636	2 8.7
2	20 52 20.31	3 11.54	18 47 7.9	13 12.0	0.33 3071	633	2 8.0
3	20 55 31.85	3 11.12	18 33 55.9	13 24.0	0.33 3704	630	2 7.2
4	20 58 42.97	3 10.67	18 20 31.9	13 35.6	0.33 4334	628	2 6.5
5	21 1 53.64	3 10.24	18 6 56.3	13 47.2	0.33 4962	626	2 5.7
6	21 5 3.88	3 9.79	—17 53 9.1	13 58.4	0.33 5588	624	2 4.9
7	21 8 13.67	3 9.34	17 39 10.7	14 9.6	0.33 6212	621	2 4.2
8	21 11 23.01	3 8.88	17 25 1.1	14 20.5	0.33 6833	619	2 3.4
9	21 14 31.89	3 8.42	17 10 40.6	14 31.2	0.33 7452	617	2 2.6
10	21 17 40.31	3 7.97	16 56 9.4	14 41.6	0.33 8069	615	2 1.8
11	21 20 48.28	3 7.51	16 41 27.8	14 51.9	0.33 8684	613	2 1.0
12	21 23 55.79	3 7.05	—16 26 35.9	15 2.0	0.33 9297	611	2 0.1
13	21 27 2.84	3 6.59	16 11 33.9	15 11.9	0.33 9908	610	1 59.3
14	21 30 9.43	3 6.14	15 56 22.0	15 21.6	0.34 0518	607	1 58.5
15	21 33 15.57	3 5.68	15 41 0.4	15 31.1	0.34 1125	606	1 57.7
16	21 36 21.25	3 5.23	15 25 29.3	15 40.4	0.34 1731	605	1 56.8
17	21 39 26.48	3 4.78	15 9 48.9	15 49.5	0.34 2336	603	1 55.9
18	21 42 31.26	3 4.33	—14 53 59.4	15 58.5	0.34 2939	601	1 55.1
19	21 45 35.59	3 3.90	14 38 0.9	16 7.1	0.34 3540	599	1 54.2
20	21 48 39.49	3 3.46	14 21 53.8	16 15.6	0.34 4139	598	1 53.3
21	21 51 42.95	3 3.03	14 5 38.2	16 23.9	0.34 4737	596	1 52.4
22	21 54 45.98	3 2.60	13 49 14.3	16 32.0	0.34 5333	595	1 51.5
23	21 57 48.58	3 2.18	13 32 42.3	16 39.9	0.34 5928	593	1 50.7
24	22 0 50.76	3 1.75	—13 16 2.4	16 47.5	0.34 6521	591	1 49.8
25	22 3 52.51	3 1.34	12 59 14.9	16 55.0	0.34 7112	589	1 48.8
26	22 6 53.85	3 0.92	12 42 19.9	17 2.3	0.34 7701	588	1 47.9
27	22 9 54.77	3 0.52	12 25 17.6	17 9.3	0.34 8289	585	1 47.0
28	22 12 55.29	3 0.11	12 8 8.3	17 16.1	0.34 8874	584	1 46.1
29	22 15 55.40	2 59.71	11 50 52.2	17 22.7	0.34 9458	581	1 45.1
30	22 18 55.11	2 59.32	—11 33 29.5	17 29.1	0.35 0039	580	1 44.2
31	22 21 54.43	2 58.92	11 16 0.4	17 35.2	0.35 0619	577	1 43.2
Febr. 1	22 24 53.35	2 58.54	10 58 25.2	17 41.1	0.35 1196	575	1 42.3
2	22 27 51.89	2 58.15	10 40 44.1	17 46.8	0.35 1771	573	1 41.3
3	22 30 50.04	2 57.78	10 22 57.3	17 52.3	0.35 2344	571	1 40.3
4	22 33 47.82	2 57.39	10 5 5.0	17 57.6	0.35 2915	569	1 39.3
5	22 36 45.21	2 57.02	— 9 47 7.4	18 2.6	0.35 3484	567	1 38.3
6	22 39 42.23	2 56.65	9 29 4.8	18 7.5	0.35 4051	564	1 37.3
7	22 42 38.88	2 56.29	9 10 57.3	18 12.0	0.35 4615	563	1 36.3
8	22 45 35.17	2 55.94	8 52 45.3	18 16.4	0.35 5178	560	1 35.3
9	22 48 31.11	2 55.58	8 34 28.9	18 20.6	0.35 5738	559	1 34.3
10	22 51 26.69		8 16 8.3		0.35 6297		1 33.3

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	22 51 26.69	2 55.24	−8 16 8.3	18 24.6	0.35 6297	556	1 33.3
11	22 54 21.93	2 54.91	7 57 43.7	18 28.4	0.35 6853	555	1 32.3
12	22 57 16.84	2 54.58	7 39 15.3	18 32.0	0.35 7408	553	1 31.3
13	23 0 11.42	2 54.26	7 20 43.3	18 35.4	0.35 7961	551	1 30.2
14	23 3 5.68	2 53.96	7 2 7.9	18 38.6	0.35 8512	550	1 29.2
15	23 5 59.64	2 53.65	6 43 29.3	18 41.6	0.35 9062	547	1 28.2
16	23 8 53.29	2 53.37	−6 24 47.7	18 44.4	0.35 9609	546	1 27.1
17	23 11 46.66	2 53.08	6 6 3.3	18 47.0	0.36 0155	544	1 26.1
18	23 14 39.74	2 52.81	5 47 16.3	18 49.4	0.36 0699	542	1 25.0
19	23 17 32.55	2 52.55	5 28 26.9	18 51.7	0.36 1241	540	1 23.9
20	23 20 25.10	2 52.30	5 9 35.2	18 53.7	0.36 1781	538	1 22.9
21	23 23 17.40	2 52.05	4 50 41.5	18 55.6	0.36 2319	537	1 21.8
22	23 26 9.45	2 51.81	−4 31 45.9	18 57.2	0.36 2856	534	1 20.7
23	23 29 1.26	2 51.59	4 12 48.7	18 58.8	0.36 3390	532	1 19.7
24	23 31 52.85	2 51.36	3 53 49.9	18 59.9	0.36 3922	529	1 18.6
25	23 34 44.21	2 51.16	3 34 50.0	19 1.0	0.36 4451	528	1 17.5
26	23 37 35.37	2 50.96	3 15 49.0	19 1.9	0.36 4979	525	1 16.4
27	23 40 26.33	2 50.76	2 56 47.1	19 2.5	0.36 5504	522	1 15.3
28	23 43 17.09	2 50.57	−2 37 44.6	19 3.0	0.36 6026	520	1 14.2
März 1	23 46 7.66	2 50.39	2 18 41.6	19 3.2	0.36 6546	518	1 13.1
2	23 48 58.05	2 50.22	1 59 38.4	19 3.3	0.36 7064	514	1 12.0
3	23 51 48.27	2 50.05	1 40 35.1	19 3.2	0.36 7578	512	1 10.9
4	23 54 38.32	2 49.88	1 21 31.9	19 2.8	0.36 8090	509	1 9.8
5	23 57 28.20	2 49.73	1 2 29.1	19 2.3	0.36 8599	507	1 8.7
6	0 0 17.93	2 49.57	−0 43 26.8	19 1.5	0.36 9106	503	1 7.6
7	0 3 7.50	2 49.44	0 24 25.3	19 0.6	0.36 9609	501	1 6.5
8	0 5 56.94	2 49.30	−0 5 24.7	18 59.5	0.37 0110	499	1 5.3
9	0 8 46.24	2 49.18	+0 13 34.8	18 58.2	0.37 0609	495	1 4.2
10	0 11 35.42	2 49.06	0 32 33.0	18 56.7	0.37 1104	493	1 3.1
11	0 14 24.48	2 48.96	0 51 29.7	18 55.2	0.37 1597	490	1 2.0
12	0 17 13.44	2 48.85	+1 10 24.9	18 53.3	0.37 2087	488	1 0.8
13	0 20 2.29	2 48.75	1 29 18.2	18 51.3	0.37 2575	485	0 59.7
14	0 22 51.04	2 48.67	1 48 9.5	18 49.2	0.37 3060	483	0 58.6
15	0 25 39.71	2 48.60	2 6 58.7	18 46.8	0.37 3543	480	0 57.5
16	0 28 28.31	2 48.54	2 25 45.5	18 44.4	0.37 4023	477	0 56.3
17	0 31 16.85	2 48.48	2 44 29.9	18 41.6	0.37 4500	474	0 55.2
18	0 34 5.33	2 48.44	+3 3 11.5	18 38.8	0.37 4974	472	0 54.1
19	0 36 53.77	2 48.40	3 21 50.3	18 35.9	0.37 5446	470	0 52.9
20	0 39 42.17	2 48.37	3 40 26.2	18 32.7	0.37 5916	466	0 51.8
21	0 42 30.54	2 48.36	3 58 58.9	18 29.4	0.37 6382	464	0 50.7
22	0 45 18.90	2 48.34	4 17 28.3	18 26.0	0.37 6846	460	0 49.5
23	0 48 7.24		4 35 54.3		0.37 7306		0 48.4

Tag	Scheinbare Rektaszension (0h mittlere Zeit Greenwich)	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
März 23	0 48 7.24	2 48.35	+ 4 35 54.3	18 22.3	0.37 7306	458	0 48.4
24	0 50 55.59	2 48.35	4 54 16.6	18 18.5	0.37 7764	454	0 47.2
25	0 53 43.94	2 48.36	5 12 35.1	18 14.5	0.37 8218	451	0 46.1
26	0 56 32.30	2 48.39	5 30 49.6	18 10.5	0.37 8669	448	0 45.0
27	0 59 20.69	2 48.42	5 49 0.1	18 6.2	0.37 9117	445	0 43.8
28	1 2 9.11	2 48.45	6 7 6.3	18 1.7	0.37 9562	441	0 42.7
29	1 4 57.56	2 48.50	+ 6 25 8.0	17 56.9	0.38 0003	437	0 41.6
30	1 7 46.06	2 48.55	6 43 4.9	17 52.1	0.38 0440	434	0 40.4
31	1 10 34.61	2 48.60	7 0 57.0	17 47.0	0.38 0874	430	0 39.3
April 1	1 13 23.21	2 48.66	7 18 44.0	17 41.9	0.38 1304	426	0 38.2
2	1 16 11.87	2 48.72	7 36 25.9	17 36.6	0.38 1730	422	0 37.1
3	1 19 0.59	2 48.78	7 54 2.5	17 31.2	0.38 2152	419	0 35.9
4	1 21 49.37	2 48.85	+ 8 11 33.7	17 25.5	0.38 2571	415	0 34.8
5	1 24 38.22	2 48.92	8 28 59.2	17 19.7	0.38 2986	410	0 33.7
6	1 27 27.14	2 49.01	8 46 18.9	17 13.8	0.38 3396	407	0 32.5
7	1 30 16.15	2 49.09	9 3 32.7	17 7.7	0.38 3803	404	0 31.4
8	1 33 5.24	2 49.18	9 20 40.4	17 1.4	0.38 4207	399	0 30.3
9	1 35 54.42	2 49.28	9 37 41.8	16 55.1	0.38 4606	395	0 29.2
10	1 38 43.70	2 49.39	+ 9 54 36.9	16 48.5	0.38 5001	392	0 28.0
11	1 41 33.09	2 49.49	10 11 25.4	16 41.8	0.38 5393	388	0 26.9
12	1 44 22.58	2 49.61	10 28 7.2	16 35.0	0.38 5781	384	0 25.8
13	1 47 12.19	2 49.74	10 44 42.2	16 28.1	0.38 6165	381	0 24.7
14	1 50 1.93	2 49.86	11 1 10.3	16 20.9	0.38 6546	376	0 23.6
15	1 52 51.79	2 50.00	11 17 31.2	16 13.8	0.38 6922	373	0 22.5
16	1 55 41.79	2 50.15	+11 33 45.0	16 6.3	0.38 7295	368	0 21.4
17	1 58 31.94	2 50.28	11 49 51.3	15 58.9	0.38 7663	365	0 20.3
18	2 1 22.22	2 50.44	12 5 50.2	15 51.3	0.38 8028	360	0 19.2
19	2 4 12.66	2 50.59	12 21 41.5	15 43.5	0.38 8388	356	0 18.0
20	2 7 3.25	2 50.76	12 37 25.0	15 35.7	0.38 8744	352	0 16.9
21	2 9 54.01	2 50.93	12 53 0.7	15 27.5	0.38 9096	347	0 15.9
22	2 12 44.94	2 51.09	+13 8 28.2	15 19.4	0.38 9443	343	0 14.8
23	2 15 36.03	2 51.28	13 23 47.6	15 11.1	0.38 9786	340	0 13.7
24	2 18 27.31	2 51.45	13 38 58.7	15 2.6	0.39 0126	334	0 12.6
25	2 21 18.76	2 51.63	13 54 1.3	14 54.2	0.39 0460	330	0 11.5
26	2 24 10.39	2 51.81	14 8 55.5	14 45.4	0.39 0790	325	0 10.4
27	2 27 2.20	2 52.00	14 23 40.9	14 36.7	0.39 1115	320	0 9.3
28	2 29 54.20	2 52.19	+14 38 17.6	14 27.7	0.39 1435	314	0 8.3
29	2 32 46.39	2 52.37	14 52 45.3	14 18.6	0.39 1749	310	0 7.2
30	2 35 38.76	2 52.55	15 7 3.9	14 9.4	0.39 2059	304	0 6.1
Mai 1	2 38 31.31	2 52.75	15 21 13.3	14 0.0	0.39 2363	299	0 5.1
2	2 41 24.06	2 52.92	15 35 13.3	13 50.5	0.39 2662	294	0 4.0
3	2 44 16.98		15 49 3.8		0.39 2956		0 2.9

Tag		0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919		h m s	m s	° ′ ″	′ ″			h m
Mai	3	2 44 16.98	2 53.11	+15 49 3.8	13 41.0	0.39 2956	289	0 2.9
	4	2 47 10.09	2 53.28	16 2 44.8	13 31.3	0.39 3245	284	0 1.9
	5	2 50 3.37	2 53.46	16 16 16.1	13 21.5	0.39 3529	279	{0 0.8 {23 59.8
	6	2 52 56.83	2 53.65	16 29 37.6	13 11.5	0.39 3808	273	23 58.7
	7	2 55 50.48	2 53.83	16 42 49.1	13 1.5	0.39 4081	268	23 57.7
	8	2 58 44.31	2 54.02	16 55 50.6	12 51.3	0.39 4349	263	23 56.6
	9	3 1 38.33	2 54.20	+17 8 41.9	12 41.0	0.39 4612	257	23 55.6
	10	3 4 32.53	2 54.39	17 21 22.9	12 30.7	0.39 4869	252	23 54.5
	11	3 7 26.92	2 54.57	17 33 53.6	12 20.3	0.39 5121	246	23 53.5
	12	3 10 21.49	2 54.77	17 46 13.9	12 9.7	0.39 5367	242	23 52.5
	13	3 13 16.26	2 54.97	17 58 23.6	11 59.2	0.39 5609	236	23 51.4
	14	3 16 11.23	2 55.15	18 10 22.8	11 48.3	0.39 5845	231	23 50.4
	15	3 19 6.38	2 55.33	+18 22 11.1	11 37.6	0.39 6076	226	23 49.4
	16	3 22 1.71	2 55.50	18 33 48.7	11 26.5	0.39 6302	220	23 48.4
	17	3 24 57.21	2 55.67	18 45 15.2	11 15.5	0.39 6522	215	23 47.4
	18	3 27 52.88	2 55.86	18 56 30.7	11 4.3	0.39 6737	209	23 46.4
	19	3 30 48.74	2 56.04	19 7 35.0	10 53.2	0.39 6946	204	23 45.4
	20	3 33 44.78	2 56.23	19 18 28.2	10 41.8	0.39 7150	198	23 44.4
	21	3 36 41.01	2 56.42	+19 29 10.0	10 30.5	0.39 7348	192	23 43.4
	22	3 39 37.43	2 56.59	19 39 40.5	10 19.0	0.39 7540	186	23 42.4
	23	3 42 34.02	2 56.77	19 49 59.5	10 7.5	0.39 7726	179	23 41.4
	24	3 45 30.79	2 56.94	20 0 7.0	9 55.9	0.39 7905	174	23 40.4
	25	3 48 27.73	2 57.10	20 10 2.9	9 44.2	0.39 8079	167	23 39.4
	26	3 51 24.83	2 57.27	20 19 47.1	9 32.4	0.39 8246	160	23 38.4
	27	3 54 22.10	2 57.41	+20 29 19.5	9 20.6	0.39 8406	154	23 37.4
	28	3 57 19.51	2 57.56	20 38 40.1	9 8.6	0.39 8560	147	23 36.5
	29	4 0 17.07	2 57.71	20 47 48.7	8 56.6	0.39 8707	141	23 35.5
	30	4 3 14.78	2 57.83	20 56 45.3	8 44.6	0.39 8848	134	23 34.5
	31	4 6 12.61	2 57.96	21 5 29.9	8 32.3	0.39 8982	127	23 33.5
Juni	1	4 9 10.57	2 58.07	21 14 2.2	8 20.2	0.39 9109	121	23 32.5
	2	4 12 8.64	2 58.18	+21 22 22.4	8 7.9	0.39 9230	114	23 31.5
	3	4 15 6.82	2 58.29	21 30 30.3	7 55.6	0.39 9344	107	23 30.6
	4	4 18 5.11	2 58.39	21 38 25.9	7 43.2	0.39 9451	100	23 29.6
	5	4 21 3.50	2 58.47	21 46 9.1	7 30.8	0.39 9551	94	23 28.6
	6	4 24 1.97	2 58.56	21 53 39.9	7 18.4	0.39 9645	87	23 27.7
	7	4 27 0.53	2 58.65	22 0 58.3	7 5.9	0.39 9732	80	23 26.7
	8	4 29 59.18	2 58.72	+22 8 4.2	6 53.3	0.39 9812	74	23 25.7
	9	4 32 57.90	2 58.78	22 14 57.5	6 40.7	0.39 9886	66	23 24.8
	10	4 35 56.68	2 58.85	22 21 38.2	6 28.1	0.39 9952	60	23 23.8
	11	4 38 55.53	2 58.91	22 28 6.3	6 15.5	0.40 0012	53	23 22.8
	12	4 41 54.44	2 58.96	22 34 21.8	6 2.7	0.40 0065	46	23 21.9
	13	4 44 53.40		22 40 24.5		0.40 0111		23 20.9

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		0h mittlere Zeit Greenwich: Scheinbare Deklination		0h mittlere Zeit Greenwich: log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Juni 13	4 44 53.40	2 59.01	+22 40 24.5	5 50.0	0.40 0111	39	23 20.9
14	4 47 52.41	2 59.04	22 46 14.5	5 37.3	0.40 0150	33	23 20.0
15	4 50 51.45	2 59.08	22 51 51.8	5 24.4	0.40 0183	25	23 19.0
16	4 53 50.53	2 59.10	22 57 16.2	5 11.7	0.40 0208	18	23 18.1
17	4 56 49.63	2 59.12	23 2 27.9	4 58.9	0.40 0226	10	23 17.1
18	4 59 48.75	2 59.14	23 7 26.8	4 46.1	0.40 0236	3	23 16.2
19	5 2 47.89	2 59.14	+23 12 12.9	4 33.2	0.40 0239	4	23 15.2
20	5 5 47.03	2 59.14	23 16 46.1	4 20.3	0.40 0235	12	23 14.3
21	5 8 46.17	2 59.12	23 21 6.4	4 7.4	0.40 0223	20	23 13.3
22	5 11 45.29	2 59.10	23 25 13.8	3 54.6	0.40 0203	27	23 12.4
23	5 14 44.39	2 59.08	23 29 8.4	3 41.7	0.40 0176	35	23 11.4
24	5 17 43.47	2 59.03	23 32 50.1	3 28.9	0.40 0141	43	23 10.4
25	5 20 42.50	2 58.97	+23 36 19.0	3 15.9	0.40 0098	52	23 9.5
26	5 23 41.47	2 58.92	23 39 34.9	3 3.1	0.40 0046	60	23 8.5
27	5 26 40.39	2 58.84	23 42 38.0	2 50.2	0.39 9986	68	23 7.5
28	5 29 39.23	2 58.75	23 45 28.2	2 37.4	0.39 9918	76	23 6.6
29	5 32 37.98	2 58.66	23 48 5.6	2 24.5	0.39 9842	85	23 5.6
30	5 35 36.64	2 58.55	23 50 30.1	2 11.7	0.39 9757	93	23 4.6
Juli 1	5 38 35.19	2 58.44	+23 52 41.8	1 58.9	0.39 9664	101	23 3.7
2	5 41 33.63	2 58.30	23 54 40.7	1 46.1	0.39 9563	109	23 2.7
3	5 44 31.93	2 58.17	23 56 26.8	1 33.4	0.39 9454	118	23 1.7
4	5 47 30.10	2 58.02	23 58 0.2	1 20.7	0.39 9336	126	23 0.8
5	5 50 28.12	2 57.87	23 59 20.9	1 8.0	0.39 9210	135	22 59.8
6	5 53 25.99	2 57.71	24 0 28.9	0 55.4	0.39 9075	143	22 58.8
7	5 56 23.70	2 57.53	+24 1 24.3	0 42.7	0.39 8932	152	22 57.8
8	5 59 21.23	2 57.35	24 2 7.0	0 30.1	0.39 8780	159	22 56.9
9	6 2 18.58	2 57.16	24 2 37.1	0 17.6	0.39 8621	169	22 55.9
10	6 5 15.74	2 56.98	24 2 54.7	0 5.1	0.39 8452	177	22 54.9
11	6 8 12.72	2 56.77	24 2 59.8	0 7.4	0.39 8275	185	22 53.9
12	6 11 9.49	2 56.58	24 2 52.4	0 19.9	0.39 8090	194	22 52.8
13	6 14 6.07	2 56.36	+24 2 32.5	0 32.2	0.39 7896	203	22 51.8
14	6 17 2.43	2 56.14	24 2 0.3	0 44.6	0.39 7693	212	22 50.8
15	6 19 58.57	2 55.92	24 1 15.7	0 56.8	0.39 7481	220	22 49.8
16	6 22 54.49	2 55.68	24 0 18.9	1 9.0	0.39 7261	230	22 48.8
17	6 25 50.17	2 55.43	23 59 9.9	1 21.2	0.39 7031	238	22 47.8
18	6 28 45.60	2 55.18	23 57 48.7	1 33.2	0.39 6793	248	22 46.8
19	6 31 40.78	2 54.91	+23 56 15.5	1 45.3	0.39 6545	257	22 45.8
20	6 34 35.69	2 54.64	23 54 30.2	1 57.2	0.39 6288	266	22 44.8
21	6 37 30.33	2 54.37	23 52 33.0	2 9.2	0.39 6022	276	22 43.7
22	6 40 24.70	2 54.09	23 50 23.8	2 20.9	0.39 5746	286	22 42.7
23	6 43 18.79	2 53.79	23 48 2.9	2 32.7	0.39 5460	296	22 41.6
24	6 46 12.58		23 45 30.2		0.39 5164		22 40.6

Tag	0ʰ mittlere Zeit Greenwich Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Juli 24	6 46 12.58	2 53.51	+23 45 30.2	2 44.4	0.39 5164	305	22 40.6
25	6 49 6.09	2 53.20	23 42 45.8	2 55.9	0.39 4859	315	22 39.5
26	6 51 59.29	2 52.88	23 39 49.9	3 7.5	0.39 4544	326	22 38.5
27	6 54 52.17	2 52.54	23 36 42.4	3 19.0	0.39 4218	335	22 37.4
28	6 57 44.71	2 52.20	23 33 23.4	3 30.3	0.39 3883	346	22 36.3
29	7 0 36.91	2 51.85	23 29 53.1	3 41.5	0.39 3537	355	22 35.3
30	7 3 28.76	2 51.50	+23 26 11.6	3 52.7	0.39 3182	366	22 34.2
31	7 6 20.26	2 51.13	23 22 18.9	4 3.7	0.39 2816	375	22 33.1
Aug. 1	7 9 11.39	2 50.77	23 18 15.2	4 14.6	0.39 2441	386	22 32.0
2	7 12 2.16	2 50.39	23 14 0.6	4 25.4	0.39 2055	396	22 30.9
3	7 14 52.55	2 50.01	23 9 35.2	4 36.3	0.39 1659	407	22 29.8
4	7 17 42.56	2 49.63	23 4 58.9	4 47.0	0.39 1252	416	22 28.7
5	7 20 32.19	2 49.24	+23 0 11.9	4 57.6	0.39 0836	427	22 27.5
6	7 23 21.43	2 48.86	22 55 14.3	5 8.2	0.39 0409	437	22 26.4
7	7 26 10.29	2 48.45	22 50 6.1	5 18.6	0.38 9972	447	22 25.3
8	7 28 58.74	2 48.05	22 44 47.5	5 28.9	0.38 9525	458	22 24.1
9	7 31 46.79	2 47.66	22 39 18.6	5 39.2	0.38 9067	468	22 23.0
10	7 34 34.45	2 47.25	22 33 39.4	5 49.4	0.38 8599	478	22 21.8
11	7 37 21.70	2 46.84	+22 27 50.0	5 59.4	0.38 8121	489	22 20.6
12	7 40 8.54	2 46.43	22 21 50.6	6 9.3	0.38 7632	500	22 19.5
13	7 42 54.97	2 46.02	22 15 41.3	6 19.2	0.38 7132	510	22 18.3
14	7 45 40.99	2 45.60	22 9 22.1	6 28.9	0.38 6622	522	22 17.2
15	7 48 26.59	2 45.19	22 2 53.2	6 38.5	0.38 6100	532	22 16.0
16	7 51 11.78	2 44.76	21 56 14.7	6 48.0	0.38 5568	544	22 14.8
17	7 53 56.54	2 44.34	+21 49 26.7	6 57.5	0.38 5024	554	22 13.6
18	7 56 40.88	2 43.91	21 42 29.2	7 6.7	0.38 4470	567	22 12.3
19	7 59 24.79	2 43.48	21 35 22.5	7 16.0	0.38 3903	577	22 11.1
20	8 2 8.27	2 43.05	21 28 6.5	7 25.1	0.38 3326	590	22 9.9
21	8 4 51.32	2 42.61	21 20 41.4	7 34.0	0.38 2736	601	22 8.7
22	8 7 33.93	2 42.16	21 13 7.4	7 42.9	0.38 2135	613	22 7.5
23	8 10 16.09	2 41.71	+21 5 24.5	7 51.6	0.38 1522	625	22 6.2
24	8 12 57.80	2 41.27	20 57 32.9	8 0.1	0.38 0897	637	22 4.9
25	8 15 39.07	2 40.81	20 49 32.8	8 8.7	0.38 0260	649	22 3.7
26	8 18 19.88	2 40.36	20 41 24.1	8 17.0	0.37 9611	661	22 2.4
27	8 21 0.24	2 39.89	20 33 7.1	8 25.2	0.37 8950	673	22 1.1
28	8 23 40.13	2 39.42	20 24 41.9	8 33.3	0.37 8277	686	21 59.8
29	8 26 19.55	2 38.96	+20 16 8.6	8 41.3	0.37 7591	697	21 58.5
30	8 28 58.51	2 38.49	20 7 27.3	8 49.1	0.37 6894	710	21 57.2
31	8 31 37.00	2 38.02	19 58 38.2	8 57.0	0.37 6184	722	21 55.9
Sept. 1	8 34 15.02	2 37.56	19 49 41.2	9 4.6	0.37 5462	734	21 54.6
2	8 36 52.58	2 37.09	19 40 36.6	9 12.2	0.37 4728	746	21 53.3
3	8 39 29.67		19 31 24.4		0.37 3982		21 52.0

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	8 39 29.67	2 36.63	+19 31 24.4	9 19.6	0.37 3982	759	21 52.0
4	8 42 6.30	2 36.16	19 22 4.8	9 26.9	0.37 3223	771	21 50.6
5	8 44 42.46	2 35.70	19 12 37.9	9 34.1	0.37 2452	784	21 49.3
6	8 47 18.16	2 35.23	19 3 3.8	9 41.2	0.37 1668	796	21 47.9
7	8 49 53.39	2 34.77	18 53 22.6	9 48.1	0.37 0872	809	21 46.6
8	8 52 28.16	2 34.32	18 43 34.5	9 55.0	0.37 0063	821	21 45.2
9	8 55 2.48	2 33.87	+18 33 39.5	10 1.8	0.36 9242	834	21 43.9
10	8 57 36.35	2 33.41	18 23 37.7	10 8.4	0.36 8408	846	21 42.5
11	9 0 9.76	2 32.97	18 13 29.3	10 15.0	0.36 7562	860	21 41.1
12	9 2 42.73	2 32.51	18 3 14.3	10 21.4	0.36 6702	873	21 39.7
13	9 5 15.24	2 32.06	17 52 52.9	10 27.7	0.36 5829	886	21 38.3
14	9 7 47.30	2 31.62	17 42 25.2	10 33.9	0.36 4943	899	21 36.8
15	9 10 18.92	2 31.17	+17 31 51.3	10 40.0	0.36 4044	913	21 35.4
16	9 12 50.09	2 30.73	17 21 11.3	10 46.0	0.36 3131	927	21 34.0
17	9 15 20.82	2 30.28	17 10 25.3	10 51.7	0.36 2204	940	21 32.6
18	9 17 51.10	2 29.84	16 59 33.6	10 57.4	0.36 1264	955	21 31.1
19	9 20 20.94	2 29.40	16 48 36.2	11 3.0	0.36 0309	969	21 29.7
20	9 22 50.34	2 28.95	16 37 33.2	11 8.4	0.35 9340	983	21 28.2
21	9 25 19.29	2 28.51	+16 26 24.8	11 13.7	0.35 8357	997	21 26.8
22	9 27 47.80	2 28.06	16 15 11.1	11 18.9	0.35 7360	1011	21 25.3
23	9 30 15.86	2 27.61	16 3 52.2	11 23.9	0.35 6349	1026	21 23.8
24	9 32 43.47	2 27.17	15 52 28.3	11 28.9	0.35 5323	1040	21 22.3
25	9 35 10.64	2 26.73	15 40 59.4	11 33.6	0.35 4283	1054	21 20.8
26	9 37 37.37	2 26.29	15 29 25.8	11 38.3	0.35 3229	1070	21 19.3
27	9 40 3.66	2 25.85	+15 17 47.5	11 42.9	0.35 2159	1083	21 17.8
28	9 42 29.51	2 25.40	15 6 4.6	11 47.4	0.35 1076	1099	21 16.3
29	9 44 54.91	2 24.97	14 54 17.2	11 51.7	0.34 9977	1113	21 14.8
30	9 47 19.88	2 24.54	14 42 25.5	11 55.9	0.34 8864	1128	21 13.2
Okt. 1	9 49 44.42	2 24.10	14 30 29.6	12 0.1	0.34 7736	1142	21 11.7
2	9 52 8.52	2 23.68	14 18 29.5	12 4.0	0.34 6594	1157	21 10.1
3	9 54 32.20	2 23.25	+14 6 25.5	12 8.0	0.34 5437	1173	21 8.6
4	9 56 55.45	2 22.83	13 54 17.5	12 11.8	0.34 4264	1187	21 7.0
5	9 59 18.28	2 22.42	13 42 5.7	12 15.4	0.34 3077	1202	21 5.5
6	10 1 40.70	2 22.01	13 29 50.3	12 19.1	0.34 1875	1217	21 3.9
7	10 4 2.71	2 21.60	13 17 31.2	12 22.5	0.34 0658	1232	21 2.3
8	10 6 24.31	2 21.20	13 5 8.7	12 25.9	0.33 9426	1247	21 0.7
9	10 8 45.51	2 20.80	+12 52 42.8	12 29.2	0.33 8179	1263	20 59.1
10	10 11 6.31	2 20.41	12 40 13.6	12 32.4	0.33 6916	1278	20 57.5
11	10 13 26.72	2 20.02	12 27 41.2	12 35.4	0.33 5638	1294	20 55.9
12	10 15 46.74	2 19.63	12 15 5.8	12 38.4	0.33 4344	1310	20 54.3
13	10 18 6.37	2 19.25	12 2 27.4	12 41.3	0.33 3034	1327	20 52.7
14	10 20 25.62		11 49 46.1		0.33 1707		20 51.1

Tag	Scheinbare Rektaszension (0h mittlere Zeit Greenwich)	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	10 20 25.62	2 18.86	+11 49 46.1	12 43.9	0.33 1707	1342	20 51.1
15	10 22 44.48	2 18.48	11 37 2.2	12 46.5	0.33 0365	1359	20 49.5
16	10 25 2.96	2 18.10	11 24 15.7	12 48.9	0.32 9006	1375	20 47.8
17	10 27 21.06	2 17.72	11 11 26.8	12 51.3	0.32 7631	1392	20 46.2
18	10 29 38.78	2 17.35	10 58 35.5	12 53.5	0.32 6239	1408	20 44.5
19	10 31 56.13	2 16.97	10 45 42.0	12 55.7	0.32 4831	1426	20 42.8
20	10 34 13.10	2 16.60	+10 32 46.3	12 57.7	0.32 3405	1443	20 41.2
21	10 36 29.70	2 16.21	10 19 48.6	12 59.5	0.32 1962	1460	20 39.5
22	10 38 45.91	2 15.84	10 6 49.1	13 1.3	0.32 0502	1478	20 37.9
23	10 41 1.75	2 15.46	9 53 47.8	13 2.9	0.31 9024	1494	20 36.2
24	10 43 17.21	2 15.09	9 40 44.9	13 4.4	0.31 7530	1512	20 34.5
25	10 45 32.30	2 14.72	9 27 40.5	13 5.8	0.31 6018	1529	20 32.8
26	10 47 47.02	2 14.34	+ 9 14 34.7	13 7.1	0.31 4489	1546	20 31.1
27	10 50 1.36	2 13.97	9 1 27.6	13 8.3	0.31 2943	1564	20 29.4
28	10 52 15.33	2 13.61	8 48 19.3	13 9.4	0.31 1379	1582	20 27.7
29	10 54 28.94	2 13.24	8 35 9.9	13 10.4	0.30 9797	1599	20 25.9
30	10 56 42.18	2 12.88	8 21 59.5	13 11.3	0.30 8198	1617	20 24.2
31	10 58 55.06	2 12.52	8 8 48.2	13 12.0	0.30 6581	1634	20 22.5
Nov. 1	11 1 7.58	2 12.16	+ 7 55 36.2	13 12.7	0.30 4947	1653	20 20.7
2	11 3 19.74	2 11.82	7 42 23.5	13 13.3	0.30 3294	1670	20 19.0
3	11 5 31.56	2 11.46	7 29 10.2	13 13.8	0.30 1624	1688	20 17.2
4	11 7 43.02	2 11.11	7 15 56.4	13 14.2	0.29 9936	1706	20 15.5
5	11 9 54.13	2 10.77	7 2 42.2	13 14.6	0.29 8230	1724	20 13.7
6	11 12 4.90	2 10.44	6 49 27.6	13 14.8	0.29 6506	1742	20 12.0
7	11 14 15.34	2 10.10	+ 6 36 12.8	13 14.9	0.29 4764	1761	20 10.2
8	11 16 25.44	2 9.77	6 22 57.9	13 14.9	0.29 3003	1779	20 8.4
9	11 18 35.21	2 9.44	6 9 43.0	13 14.8	0.29 1224	1799	20 6.7
10	11 20 44.65	2 9.12	5 56 28.2	13 14.6	0.28 9425	1817	20 4.9
11	11 22 53.77	2 8.79	5 43 13.6	13 14.4	0.28 7608	1837	20 3.1
12	11 25 2.56	2 8.46	5 29 59.2	13 13.9	0.28 5771	1856	20 1.3
13	11 27 11.02	2 8.13	+ 5 16 45.3	13 13.5	0.28 3915	1876	19 59.5
14	11 29 19.15	2 7.80	5 3 31.8	13 12.8	0.28 2039	1895	19 57.7
15	11 31 26.95	2 7.47	4 50 19.0	13 12.0	0.28 0144	1916	19 55.8
16	11 33 34.42	2 7.13	4 37 7.0	13 11.1	0.27 8228	1936	19 54.0
17	11 35 41.55	2 6.81	4 23 55.9	13 10.1	0.27 6292	1955	19 52.2
18	11 37 48.36	2 6.47	4 10 45.8	13 9.1	0.27 4337	1977	19 50.4
19	11 39 54.83	2 6.13	+ 3 57 36.7	13 7.8	0.27 2360	1996	19 48.5
20	11 42 0.96	2 5.78	3 44 28.9	13 6.5	0.27 0364	2017	19 46.7
21	11 44 6.74	2 5.43	3 31 22.4	13 5.1	0.26 8347	2038	19 44.8
22	11 46 12.17	2 5.09	3 18 17.3	13 3.6	0.26 6309	2058	19 43.0
23	11 48 17.26	2 4.74	3 5 13.7	13 2.0	0.26 4251	2079	19 41.1
24	11 50 22.00		2 52 11.7		0.26 2172		19 39.3

Tag	0h mittlere Zeit Greenwich Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	11 50 22.00	2 4.40	+2 52 11.7	13 0.2	0.26 2172	2100	19 39.3
25	11 52 26.40	2 4.07	2 39 11.5	12 58.4	0.26 0072	2121	19 37.4
26	11 54 30.47	2 3.72	2 26 13.1	12 56.5	0.25 7951	2141	19 35.5
27	11 56 34.19	2 3.36	2 13 16.6	12 54.5	0.25 5810	2163	19 33.6
28	11 58 37.55	2 3.01	2 0 22.1	12 52.3	0.25 3647	2183	19 31.7
29	12 0 40.56	2 2.65	1 47 29.8	12 50.0	0.25 1464	2205	19 29.8
30	12 2 43.21	2 2.29	+1 34 39.8	12 47.8	0.24 9259	2225	19 27.9
Dez. 1	12 4 45.50	2 1.95	1 21 52.0	12 45.4	0.24 7034	2247	19 26.0
2	12 6 47.45	2 1.59	1 9 6.6	12 42.9	0.24 4787	2269	19 24.1
3	12 8 49.04	2 1.24	0 56 23.7	12 40.4	0.24 2518	2290	19 22.2
4	12 10 50.28	2 0.89	0 43 43.3	12 37.8	0.24 0228	2311	19 20.3
5	12 12 51.17	2 0.54	0 31 5.5	12 35.1	0.23 7917	2334	19 18.4
6	12 14 51.71	2 0.18	+0 18 30.4	12 32.2	0.23 5583	2355	19 16.4
7	12 16 51.89	1 59.83	+0 5 58.2	12 29.3	0.23 3228	2377	19 14.5
8	12 18 51.72	1 59.47	−0 6 31.1	12 26.3	0.23 0851	2400	19 12.5
9	12 20 51.19	1 59.11	0 18 57.4	12 23.2	0.22 8451	2423	19 10.6
10	12 22 50.30	1 58.74	0 31 20.6	12 20.0	0.22 6028	2445	19 8.6
11	12 24 49.04	1 58.38	0 43 40.6	12 16.7	0.22 3583	2469	19 6.7
12	12 26 47.42	1 57.99	−0 55 57.3	12 13.2	0.22 1114	2492	19 4.7
13	12 28 45.41	1 57.61	1 8 10.5	12 9.7	0.21 8622	2515	19 2.7
14	12 30 43.02	1 57.21	1 20 20.2	12 6.1	0.21 6107	2539	19 0.7
15	12 32 40.23	1 56.81	1 32 26.3	12 2.4	0.21 3568	2564	18 58.7
16	12 34 37.04	1 56.41	1 44 28.7	11 58.5	0.21 1004	2587	18 56.7
17	12 36 33.45	1 55.98	1 56 27.2	11 54.5	0.20 8417	2611	18 54.7
18	12 38 29.43	1 55.56	−2 8 21.7	11 50.4	0.20 5806	2635	18 52.7
19	12 40 24.99	1 55.12	2 20 12.1	11 46.2	0.20 3171	2659	18 50.7
20	12 42 20.11	1 54.68	2 31 58.3	11 41.9	0.20 0512	2683	18 48.7
21	12 44 14.79	1 54.23	2 43 40.2	11 37.5	0.19 7829	2708	18 46.6
22	12 46 9.02	1 53.77	2 55 17.7	11 33.1	0.19 5121	2732	18 44.6
23	12 48 2.79	1 53.30	3 6 50.8	11 28.5	0.19 2389	2756	18 42.5
24	12 49 56.09	1 52.82	−3 18 19.3	11 23.8	0.18 9633	2781	18 40.4
25	12 51 48.91	1 52.34	3 29 43.1	11 19.1	0.18 6852	2806	18 38.4
26	12 53 41.25	1 51.85	3 41 2.2	11 14.3	0.18 4046	2830	18 36.3
27	12 55 33.10	1 51.34	3 52 16.5	11 9.4	0.18 1216	2855	18 34.2
28	12 57 24.44	1 50.83	4 3 25.9	11 4.4	0.17 8361	2879	18 32.2
29	12 59 15.27	1 50.32	4 14 30.3	10 59.3	0.17 5482	2904	18 30.1
30	13 1 5.59	1 49.79	−4 25 29.6	10 54.2	0.17 2578	2929	18 28.0
31	13 2 55.38	1 49.25	4 36 23.8	10 48.9	0.16 9649	2954	18 25.8
32	13 4 44.63		4 47 12.7		0.16 6695		18 23.7

Tag	0h mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919	h m s	m s	° ′ ″	′ ″			h m
Jan. 1	6 47 17.82	1 10.36	+23 2 6.1	1 35.5	0.62 2883	94	12 4.7
3	6 46 7.46	1 10.22	23 3 41.6	1 33.2	0.62 2977	228	11 55.6
5	6 44 57.24	1 9.85	23 5 14.8	1 30.7	0.62 3205	359	11 46.6
7	6 43 47.39	1 9.27	23 6 45.5	1 28.3	0.62 3564	489	11 37.6
9	6 42 38.12	1 8.47	23 8 13.8	1 25.4	0.62 4053	618	11 28.6
11	6 41 29.65	1 7.46	23 9 39.2	1 22.5	0.62 4671	745	11 19.6
13	6 40 22.19	1 6.26	+23 11 1.7	1 19.5	0.62 5416	869	11 10.6
15	6 39 15.93	1 4.87	23 12 21.2	1 16.3	0.62 6285	992	11 1.7
17	6 38 11.06	1 3.31	23 13 37.5	1 13.1	0.62 7277	1112	10 52.7
19	6 37 7.75	1 1.56	23 14 50.6	1 9.8	0.62 8389	1229	10 43.8
21	6 36 6.19	0 59.64	23 16 0.4	1 6.6	0.62 9618	1343	10 34.9
23	6 35 6.55	0 57.55	23 17 7.0	1 3.3	0.63 0961	1454	10 26.1
25	6 34 9.00	0 55.30	+23 18 10.3	1 0.0	0.63 2415	1561	10 17.3
27	6 33 13.70	0 52.89	23 19 10.3	0 56.8	0.63 3976	1665	10 8.5
29	6 32 20.81	0 50.32	23 20 7.1	0 53.5	0.63 5641	1765	9 59.8
31	6 31 30.49	0 47.63	23 21 0.6	0 50.2	0.63 7406	1860	9 51.1
Febr. 2	6 30 42.86	0 44.79	23 21 50.8	0 47.1	0.63 9266	1950	9 42.5
4	6 29 58.07	0 41.85	23 22 37.9	0 44.0	0.64 1216	2036	9 33.9
6	6 29 16.22	0 38.82	+23 23 21.9	0 41.0	0.64 3252	2117	9 25.3
8	6 28 37.40	0 35.70	23 24 2.9	0 38.1	0.64 5369	2193	9 16.8
10	6 28 1.70	0 32.51	23 24 41.0	0 35.2	0.64 7562	2263	9 8.4
12	6 27 29.19	0 29.28	23 25 16.2	0 32.5	0.64 9825	2330	9 0.0
14	6 26 59.91	0 25.97	23 25 48.7	0 29.9	0.65 2155	2392	8 51.6
16	6 26 33.94	0 22.64	23 26 18.6	0 27.3	0.65 4547	2449	8 43.4
18	6 26 11.30	0 19.26	+23 26 45.9	0 24.9	0.65 6996	2501	8 35.1
20	6 25 52.04	0 15.86	23 27 10.8	0 22.5	0.65 9497	2550	8 26.9
22	6 25 36.18	0 12.42	23 27 33.3	0 20.0	0.66 2047	2593	8 18.9
24	6 25 23.76	0 8.97	23 27 53.3	0 17.7	0.66 4640	2633	8 10.8
26	6 25 14.79	0 5.49	23 28 11.0	0 15.2	0.66 7273	2668	8 2.8
28	6 25 9.30	0 2.02	23 28 26.2	0 13.0	0.66 9941	2699	7 54.8
März 2	6 25 7.28	0 1.45	+23 28 39.2	0 10.6	0.67 2640	2725	7 46.9
4	6 25 8.73	0 4.92	23 28 49.8	0 8.4	0.67 5365	2746	7 39.1
6	6 25 13.65	0 8.35	23 28 58.2	0 6.0	0.67 8111	2764	7 31.3
8	6 25 22.00	0 11.76	23 29 4.2	0 3.8	0.68 0875	2778	7 23.6
10	6 25 33.76	0 15.12	23 29 8.0	0 1.4	0.68 3653	2786	7 16.0
12	6 25 48.88	0 18.45	23 29 9.4	0 0.9	0.68 6439	2793	7 8.4
14	6 26 7.33	0 21.71	+23 29 8.5	0 3.2	0.68 9232	2796	7 0.8
16	6 26 29.04	0 24.94	23 29 5.3	0 5.6	0.69 2028	2796	6 53.3
18	6 26 53.98	0 28.12	23 28 59.7	0 8.1	0.69 4824	2792	6 45.9
20	6 27 22.10	0 31.25	23 28 51.6	0 10.6	0.69 7616	2786	6 38.5
22	6 27 53.35	0 34.33	23 28 41.0	0 13.3	0.70 0402	2777	6 31.2
24	6 28 27.68		23 28 27.7		0.70 3179		6 23.9

Jupiter 1919

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension	Diff.	0h mittlere Zeit Greenwich: Scheinbare Deklination	Diff.	0h mittlere Zeit Greenwich: log Δ	Diff.	Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
März 24	6 28 27.68	0 37.37	+23 28 27.7	0 15.9	0.70 3179	2765	6 23.9
26	6 29 5.05	0 40.35	23 28 11.8	0 18.8	0.70 5944	2751	6 16.6
28	6 29 45.40	0 43.29	23 27 53.0	0 21.7	0.70 8695	2734	6 9.4
30	6 30 28.69	0 46.16	23 27 31.3	0 24.8	0.71 1429	2714	6 2.3
April 1	6 31 14.85	0 48.99	23 27 6.5	0 27.8	0.71 4143	2692	5 55.2
3	6 32 3.84	0 51.73	23 26 38.7	0 31.1	0.71 6835	2667	5 48.2
5	6 32 55.57	0 54.41	+23 26 7.6	0 34.4	0.71 9502	2640	5 41.1
7	6 33 49.98	0 57.01	23 25 33.2	0 37.8	0.72 2142	2611	5 34.2
9	6 34 46.99	0 59.54	23 24 55.4	0 41.4	0.72 4753	2581	5 27.3
11	6 35 46.53	1 2.00	23 24 14.0	0 45.0	0.72 7334	2548	5 20.4
13	6 36 48.53	1 4.39	23 23 29.0	0 48.7	0.72 9882	2515	5 13.6
15	6 37 52.92	1 6.72	23 22 40.3	0 52.6	0.73 2397	2480	5 6.8
17	6 38 59.64	1 8.99	+23 21 47.7	0 56.6	0.73 4877	2443	5 0.0
19	6 40 8.63	1 11.18	23 20 51.1	1 0.6	0.73 7320	2406	4 53.3
21	6 41 19.81	1 13.33	23 19 50.5	1 4.9	0.73 9726	2367	4 46.6
23	6 42 33.14	1 15.41	23 18 45.6	1 9.4	0.74 2093	2327	4 40.0
25	6 43 48.55	1 17.45	23 17 36.2	1 13.9	0.74 4420	2286	4 33.4
27	6 45 6.00	1 19.41	23 16 22.3	1 18.4	0.74 6706	2243	4 26.8
29	6 46 25.41	1 21.31	+23 15 3.9	1 23.2	0.74 8949	2199	4 20.3
Mai 1	6 47 46.72	1 23.14	23 13 40.7	1 28.0	0.75 1148	2154	4 13.8
3	6 49 9.86	1 24.92	23 12 12.7	1 32.8	0.75 3302	2108	4 7.3
5	6 50 34.78	1 26.61	23 10 39.9	1 37.7	0.75 5410	2062	4 0.8
7	6 52 1.39	1 28.24	23 9 2.2	1 42.8	0.75 7472	2013	3 54.4
9	6 53 29.63	1 29.80	23 7 19.4	1 47.9	0.75 9485	1966	3 48.0
11	6 54 59.43	1 31.30	+23 5 31.5	1 53.1	0.76 1451	1917	3 41.6
13	6 56 30.73	1 32.74	23 3 38.4	1 58.4	0.76 3368	1869	3 35.3
15	6 58 3.47	1 34.14	23 1 40.0	2 3.8	0.76 5237	1818	3 28.9
17	6 59 37.61	1 35.48	22 59 36.2	2 9.3	0.76 7055	1770	3 22.6
19	7 1 13.09	1 36.76	22 57 26.9	2 14.8	0.76 8825	1719	3 16.4
21	7 2 49.85	1 38.00	22 55 12.1	2 20.4	0.77 0544	1668	3 10.1
23	7 4 27.85	1 39.19	+22 52 51.7	2 26.1	0.77 2212	1617	3 3.9
25	7 6 7.04	1 40.34	22 50 25.6	2 31.7	0.77 3829	1564	2 57.7
27	7 7 47.38	1 41.43	22 47 53.9	2 37.5	0.77 5393	1513	2 51.5
29	7 9 28.81	1 42.44	22 45 16.4	2 43.3	0.77 6906	1459	2 45.3
31	7 11 11.25	1 43.42	22 42 33.1	2 49.1	0.77 8365	1406	2 39.1
Juni 2	7 12 54.67	1 44.32	22 39 44.0	2 54.8	0.77 9771	1352	2 33.0
4	7 14 38.99	1 45.18	+22 36 49.2	3 0.6	0.78 1123	1298	2 26.8
6	7 16 24.17	1 45.98	22 33 48.6	3 6.4	0.78 2421	1244	2 20.7
8	7 18 10.15	1 46.73	22 30 42.2	3 12.2	0.78 3665	1190	2 14.6
10	7 19 56.88	1 47.44	22 27 30.0	3 17.9	0.78 4855	1136	2 8.5
12	7 21 44.32	1 48.10	22 24 12.1	3 23.8	0.78 5991	1082	2 2.4
14	7 23 32.42		22 20 48.3		0.78 7073		1 56.4

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Juni 14	7 23 32.42	1 48.72	+22 20 48.3	3 29.5	0.78 7073	1027	1 56.4
16	7 25 21.14	1 49.30	22 17 18.8	3 35.4	0.78 8100	974	1 50.3
18	7 27 10.44	1 49.84	22 13 43.4	3 41.1	0.78 9074	918	1 44.3
20	7 29 0.28	1 50.35	22 10 2.3	3 47.0	0.78 9992	864	1 38.2
22	7 30 50.63	1 50.80	22 6 15.3	3 52.6	0.79 0856	809	1 32.2
24	7 32 41.43	1 51.22	22 2 22.7	3 58.2	0.79 1665	753	1 26.2
26	7 34 32.65	1 51.58	+21 58 24.5	4 3.9	0.79 2418	697	1 20.1
28	7 36 24.23	1 51.90	21 54 20.6	4 9.4	0.79 3115	641	1 14.1
30	7 38 16.13	1 52.16	21 50 11.2	4 14.8	0.79 3756	586	1 8.1
Juli 2	7 40 8.29	1 52.38	21 45 56.4	4 20.1	0.79 4342	529	1 2.1
4	7 42 0.67	1 52.56	21 41 36.3	4 25.4	0.79 4871	474	0 56.1
6	7 43 53.23	1 52.69	21 37 10.9	4 30.5	0.79 5345	417	0 50.1
8	7 45 45.92	1 52.79	+21 32 40.4	4 35.6	0.79 5762	362	0 44.1
10	7 47 38.71	1 52.85	21 28 4.8	4 40.6	0.79 6124	306	0 38.1
12	7 49 31.56	1 52.86	21 23 24.2	4 45.5	0.79 6430	251	0 32.1
14	7 51 24.42	1 52.86	21 18 38.7	4 50.4	0.79 6681	195	0 26.1
16	7 53 17.28	1 52.81	21 13 48.3	4 55.0	0.79 6876	139	0 20.2
18	7 55 10.09	1 52.73	21 8 53.3	4 59.6	0.79 7015	84	0 14.2
20	7 57 2.82	1 52.61	+21 3 53.7	5 4.1	0.79 7099	27	0 8.2
22	7 58 55.43	1 52.46	20 58 49.6	5 8.4	0.79 7126	29	{0 2.2 / 23 59.2
24	8 0 47.89	1 52.26	20 53 41.2	5 12.5	0.79 7097	85	23 53.1
26	8 2 40.15	1 52.01	20 48 28.7	5 16.6	0.79 7012	142	23 47.1
28	8 4 32.16	1 51.72	20 43 12.1	5 20.2	0.79 6870	199	23 41.1
30	8 6 23.88	1 51.38	20 37 51.9	5 23.9	0.79 6671	255	23 35.1
Aug. 1	8 8 15.26	1 51.01	+20 32 28.0	5 27.3	0.79 6416	311	23 29.1
3	8 10 6.27	1 50.59	20 27 0.7	5 30.5	0.79 6105	367	23 23.1
5	8 11 56.86	1 50.14	20 21 30.2	5 33.7	0.79 5738	423	23 17.1
7	8 13 47.00	1 49.65	20 15 56.5	5 36.5	0.79 5315	479	23 11.0
9	8 15 36.65	1 49.13	20 10 20.0	5 39.3	0.79 4836	534	23 4.9
11	8 17 25.78	1 48.58	20 4 40.7	5 41.8	0.79 4302	590	22 58.9
13	8 19 14.36	1 47.99	+19 58 58.9	5 44.2	0.79 3712	645	22 52.8
15	8 21 2.35	1 47.37	19 53 14.7	5 46.3	0.79 3067	701	22 46.8
17	8 22 49.72	1 46.70	19 47 28.4	5 48.2	0.79 2366	756	22 40.7
19	8 24 36.42	1 46.02	19 41 40.2	5 49.9	0.79 1610	812	22 34.6
21	8 26 22.44	1 45.26	19 35 50.3	5 51.3	0.79 0798	868	22 28.5
23	8 28 7.70	1 44.48	19 29 59.0	5 52.5	0.78 9930	924	22 22.3
25	8 29 52.18	1 43.63	+19 24 6.5	5 53.3	0.78 9006	979	22 16.2
27	8 31 35.81	1 42.74	19 18 13.2	5 53.9	0.78 8027	1034	22 10.1
29	8 33 18.55	1 41.82	19 12 19.3	5 54.1	0.78 6993	1090	22 3.9
31	8 35 0.37	1 40.86	19 6 25.2	5 54.2	0.78 5903	1144	21 57.7
Sept. 2	8 36 41.23	1 39.84	19 0 31.0	5 54.0	0.78 4759	1197	21 51.5
4	8 38 21.07		18 54 37.0		0.78 3562		21 45.3

Tag	0ʰ mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	m s	° ′ ″	′ ″			h m
Sept. 4	8 38 21.07	1 38.79	+18 54 37.0	5 53.5	0.78 3562	1252	21 45.3
6	8 39 59.86	1 37.69	18 48 43.5	5 52.7	0.78 2310	1305	21 39.1
8	8 41 37.55	1 36.59	18 42 50.8	5 51.8	0.78 1005	1358	21 32.8
10	8 43 14.14	1 35.42	18 36 59.0	5 50.4	0.77 9647	1411	21 26.5
12	8 44 49.56	1 34.23	18 31 8.6	5 48.8	0.77 8236	1463	21 20.2
14	8 46 23.79	1 32.96	18 25 19.8	5 46.9	0.77 6773	1516	21 13.9
16	8 47 56.75	1 31.68	+18 19 32.9	5 44.6	0.77 5257	1569	21 7.6
18	8 49 28.43	1 30.34	18 13 48.3	5 42.0	0.77 3688	1620	21 1.3
20	8 50 58.77	1 28.94	18 8 6.3	5 39.0	0.77 2068	1672	20 54.9
22	8 52 27.71	1 27.48	18 2 27.3	5 35.6	0.77 0396	1722	20 48.5
24	8 53 55.19	1 25.99	17 56 51.7	5 31.9	0.76 8674	1773	20 42.0
26	8 55 21.18	1 24.43	17 51 19.8	5 27.9	0.76 6901	1822	20 35.6
28	8 56 45.61	1 22.83	+17 45 51.9	5 23.4	0.76 5079	1871	20 29.1
30	8 58 8.44	1 21.18	17 40 28.5	5 18.7	0.76 3208	1919	20 22.6
Okt. 2	8 59 29.62	1 19.49	17 35 9.8	5 13.6	0.76 1289	1965	20 16.1
4	9 0 49.11	1 17.73	17 29 56.2	5 8.2	0.75 9324	2011	20 9.6
6	9 2 6.84	1 15.96	17 24 48.0	5 2.3	0.75 7313	2056	20 3.0
8	9 3 22.80	1 14.11	17 19 45.7	4 56.2	0.75 5257	2100	19 56.4
10	9 4 36.91	1 12.25	+17 14 49.5	4 49.7	0.75 3157	2144	19 49.7
12	9 5 49.16	1 10.31	17 9 59.8	4 42.7	0.75 1013	2185	19 43.0
14	9 6 59.47	1 8.33	17 5 17.1	4 35.4	0.74 8828	2228	19 36.3
16	9 8 7.80	1 6.27	17 0 41.7	4 27.8	0.74 6600	2267	19 29.6
18	9 9 14.07	1 4.17	16 56 13.9	4 19.7	0.74 4333	2307	19 22.8
20	9 10 18.24	1 2.00	16 51 54.2	4 11.0	0.74 2026	2344	19 16.0
22	9 11 20.24	0 59.77	+16 47 43.2	4 2.0	0.73 9682	2380	19 9.1
24	9 12 20.01	0 57.49	16 43 41.2	3 52.7	0.73 7302	2414	19 2.2
26	9 13 17.50	0 55.15	16 39 48.5	3 43.0	0.73 4888	2447	18 55.3
28	9 14 12.65	0 52.77	16 36 5.5	3 33.0	0.73 2441	2477	18 48.3
30	9 15 5.42	0 50.33	16 32 32.5	3 22.6	0.72 9964	2505	18 41.3
Nov. 1	9 15 55.75	0 47.84	16 29 9.9	3 11.8	0.72 7459	2531	18 34.3
3	9 16 43.59	0 45.32	+16 25 58.1	3 0.8	0.72 4928	2555	18 27.2
5	9 17 28.91	0 42.73	16 22 57.3	2 49.3	0.72 2373	2577	18 20.1
7	9 18 11.64	0 40.12	16 20 8.0	2 37.7	0.71 9796	2597	18 12.9
9	9 18 51.76	0 37.45	16 17 30.3	2 25.6	0.71 7199	2615	18 5.7
11	9 19 29.21	0 34.72	16 15 4.7	2 13.2	0.71 4584	2630	17 58.5
13	9 20 3.93	0 31.94	16 12 51.5	2 0.4	0.71 1954	2643	17 51.1
15	9 20 35.87	0 29.11	+16 10 51.1	1 47.3	0.70 9311	2652	17 43.8
17	9 21 4.98	0 26.22	16 9 3.8	1 33.8	0.70 6659	2660	17 36.4
19	9 21 31.20	0 23.30	16 7 30.0	1 20.2	0.70 3999	2663	17 28.9
21	9 21 54.50	0 20.33	16 6 9.8	1 6.4	0.70 1336	2663	17 21.4
23	9 22 14.83	0 17.33	16 5 3.4	0 52.3	0.69 8673	2660	17 13.9
25	9 22 32.16		16 4 11.1		0.69 6013		17 6.3

Tag	0h mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919	h m s	s	° ′ ″	′ ″			h m
Nov. 25	9 22 32.16	14.30	+16 4 11.1	0 38.1	0.69 6013	2653	17 6.3
27	9 22 46.46	11.24	16 3 33.0	0 23.8	0.69 3360	2642	16 58.6
29	9 22 57.70	8.17	16 3 9.2	0 9.2	0.69 0718	2627	16 51.0
Dez. 1	9 23 5.87	5.08	16 3 0.0	0 5.3	0.68 8091	2609	16 43.2
3	9 23 10.95	1.98	16 3 5.3	0 19.8	0.68 5482	2587	16 35.4
5	9 23 12.93	1.12	16 3 25.1	0 34.4	0.68 2895	2560	16 27.6
7	9 23 11.81	4.23	+16 3 59.5	0 49.0	0.68 0335	2531	16 19.7
9	9 23 7.58	7.35	16 4 48.5	1 3.5	0.67 7804	2497	16 11.7
11	9 23 0.23	10.46	16 5 52.0	1 18.1	0.67 5307	2458	16 3.7
13	9 22 49.77	13.58	16 7 10.1	1 32.6	0.67 2849	2416	15 55.7
15	9 22 36.19	16.69	16 8 42.7	1 46.9	0.67 0433	2369	15 47.6
17	9 22 19.50	19.77	16 10 29.6	2 1.0	0.66 8064	2316	15 39.4
19	9 21 59.73	22.82	+16 12 30.6	2 14.8	0.66 5748	2260	15 31.2
21	9 21 36.91	25.82	16 14 45.4	2 28.3	0.66 3488	2197	15 22.9
23	9 21 11.09	28.77	16 17 13.7	2 41.5	0.66 1291	2131	15 14.6
25	9 20 42.32	31.66	16 19 55.2	2 54.1	0.65 9160	2060	15 6.3
27	9 20 10.66	34.47	16 22 49.3	3 6.4	0.65 7100	1983	14 57.9
29	9 19 36.19	37.19	16 25 55.7	3 18.1	0.65 5117	1904	14 49.4
31	9 18 59.00	(19.59)	+16 29 13.8	(1 43.3)	0.65 3213	(920)	14 40.9
32	9 18 39.41		16 30 57.1		0.65 2293		14 36.7

Saturn 1919

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	s	° ′ ″	′ ″			h m
Jan. 1	10 1 47.96	18.93	+13 31 13.0	2 8.2	0.93 0027	1229	15 18.8
3	10 1 29.03	20.44	13 33 21.2	2 15.7	0.92 8798	1188	15 10.6
5	10 1 8.59	21.88	13 35 36.9	2 23.0	0.92 7610	1145	15 2.4
7	10 0 46.71	23.30	13 37 59.9	2 29.8	0.92 6465	1100	14 54.2
9	10 0 23.41	24.65	13 40 29.7	2 36.4	0.92 5365	1053	14 46.0
11	9 59 58.76	25.95	13 43 6.1	2 42.7	0.92 4312	1003	14 37.7
13	9 59 32.81	27.19	+13 45 48.8	2 48.6	0.92 3309	953	14 29.4
15	9 59 5.62	28.38	13 48 37.4	2 54.1	0.92 2356	901	14 21.1
17	9 58 37.24	29.52	13 51 31.5	2 59.3	0.92 1455	846	14 12.7
19	9 58 7.72	30.60	13 54 30.8	3 4.2	0.92 0609	790	14 4.4
21	9 57 37.12	31.60	13 57 35.0	3 8.5	0.91 9819	734	13 56.0
23	9 57 5.52	32.53	14 0 43.5	3 12.5	0.91 9085	674	13 47.6
25	9 56 32.99	33.42	+14 3 56.0	3 16.0	0.91 8411	614	13 39.2
27	9 55 59.57	34.22	14 7 12.0	3 19.3	0.91 7797	552	13 30.7
29	9 55 25.35	34.94	14 10 31.3	3 21.9	0.91 7245	490	13 22.3
31	9 54 50.41	35.57	14 13 53.2	3 24.1	0.91 6755	425	13 13.9
Febr. 2	9 54 14.84	36.12	14 17 17.3	3 25.7	0.91 6330	360	13 5.4
4	9 53 38.72	36.59	14 20 43.0	3 26.9	0.91 5970	295	12 57.0
6	9 53 2.13	36.96	+14 24 9.9	3 27.6	0.91 5675	229	12 48.5
8	9 52 25.17	37.25	14 27 37.5	3 27.9	0.91 5446	162	12 40.0
10	9 51 47.92	37.46	14 31 5.4	3 27.6	0.91 5284	96	12 31.5
12	9 51 10.46	37.58	14 34 33.0	3 26.9	0.91 5188	30	12 23.0
14	9 50 32.88	37.62	14 37 59.9	3 25.9	0.91 5158	37	12 14.6
16	9 49 55.26	37.58	14 41 25.8	3 24.5	0.91 5195	103	12 6.1
18	9 49 17.68	37.45	+14 44 50.3	3 22.4	0.91 5298	169	11 57.6
20	9 48 40.23	37.25	14 48 12.7	3 20.2	0.91 5467	236	11 49.1
22	9 48 2.98	36.95	14 51 32.9	3 17.2	0.91 5703	300	11 40.6
24	9 47 26.03	36.58	14 54 50.1	3 14.0	0.91 6003	366	11 32.1
26	9 46 49.45	36.11	14 58 4.1	3 10.4	0.91 6369	430	11 23.7
28	9 46 13.34	35.57	15 1 14.5	3 6.4	0.91 6799	493	11 15.2
März 2	9 45 37.77	34.93	+15 4 20.9	3 1.9	0.91 7292	556	11 6.8
4	9 45 2.84	34.21	15 7 22.8	2 56.9	0.91 7848	617	10 58.3
6	9 44 28.63	33.42	15 10 19.7	2 51.8	0.91 8465	676	10 49.9
8	9 43 55.21	32.55	15 13 11.5	2 46.3	0.91 9141	735	10 41.5
10	9 43 22.66	31.62	15 15 57.8	2 40.5	0.91 9876	791	10 33.1
12	9 42 51.04	30.62	15 18 38.3	2 34.4	0.92 0667	846	10 24.7
14	9 42 20.42	29.55	+15 21 12.7	2 28.1	0.92 1513	899	10 16.3
16	9 41 50.87	28.44	15 23 40.8	2 21.5	0.92 2412	951	10 8.0
18	9 41 22.43	27.27	15 26 2.3	2 14.6	0.92 3363	1001	9 59.6
20	9 40 55.16	26.04	15 28 16.9	2 7.7	0.92 4364	1048	9 51.3
22	9 40 29.12	24.75	15 30 24.6	2 0.4	0.92 5412	1095	9 43.1
24	9 40 4.37		15 32 25.0		0.92 6507		9 34.8

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	s	° ′ ″	′ ″			h m
März 24	9 40 4.37	23.42	+15 32 25.0	1 52.9	0.92 6507	1140	9 34.8
26	9 39 40.95	22.04	15 34 17.9	1 45.4	0.92 7647	1182	9 26.5
28	9 39 18.91	20.61	15 36 3.3	1 37.5	0.92 8829	1222	9 18.3
30	9 38 58.30	19.15	15 37 40.8	1 29.6	0.93 0051	1261	9 10.1
April 1	9 38 39.15	17.64	15 39 10.4	1 21.4	0.93 1312	1296	9 1.9
3	9 38 21.51	16.08	15 40 31.8	1 13.2	0.93 2608	1331	8 53.8
5	9 38 5.43	14.51	+15 41 45.0	1 5.0	0.93 3939	1362	8 45.7
7	9 37 50.92	12.91	15 42 50.0	0 56.6	0.93 5301	1391	8 37.6
9	9 37 38.01	11.29	15 43 46.6	0 48.2	0.93 6692	1418	8 29.5
11	9 37 26.72	9.67	15 44 34.8	0 39.8	0.93 8110	1443	8 21.4
13	9 37 17.05	8.03	15 45 14.6	0 31.3	0.93 9553	1466	8 13.4
15	9 37 9.02	6.37	15 45 45.9	0 22.9	0.94 1019	1487	8 5.4
17	9 37 2.65	4.71	+15 46 8.8	0 14.5	0.94 2506	1505	7 57.5
19	9 36 57.94	3.04	15 46 23.3	0 6.0	0.94 4011	1522	7 49.5
21	9 36 54.90	1.36	15 46 29.3	0 2.5	0.94 5533	1537	7 41.6
23	9 36 53.54	0.33	15 46 26.8	0 10.9	0.94 7070	1550	7 33.7
25	9 36 53.87	2.01	15 46 15.9	0 19.5	0.94 8620	1561	7 25.9
27	9 36 55.88	3.69	15 45 56.4	0 28.0	0.95 0181	1570	7 18.0
29	9 36 59.57	5.39	+15 45 28.4	0 36.3	0.95 1751	1576	7 10.3
Mai 1	9 37 4.96	7.06	15 44 52.1	0 44.6	0.95 3327	1581	7 2.5
3	9 37 12.02	8.73	15 44 7.5	0 53.0	0.95 4908	1584	6 54.7
5	9 37 20.75	10.38	15 43 14.5	1 1.2	0.95 6492	1585	6 47.0
7	9 37 31.13	12.02	15 42 13.3	1 9.3	0.95 8077	1584	6 39.3
9	9 37 43.15	13.63	15 41 4.0	1 17.2	0.95 9661	1581	6 31.7
11	9 37 56.78	15.23	+15 39 46.8	1 25.2	0.96 1242	1577	6 24.0
13	9 38 12.01	16.80	15 38 21.6	1 33.0	0.96 2819	1571	6 16.4
15	9 38 28.81	18.36	15 36 48.6	1 40.7	0.96 4390	1564	6 8.8
17	9 38 47.17	19.89	15 35 7.9	1 48.4	0.96 5954	1555	6 1.3
19	9 39 7.06	21.41	15 33 19.5	1 55.9	0.96 7509	1545	5 53.8
21	9 39 28.47	22.90	15 31 23.6	2 3.4	0.96 9054	1534	5 46.2
23	9 39 51.37	24.38	+15 29 20.2	2 10.8	0.97 0588	1520	5 38.8
25	9 40 15.75	25.83	15 27 9.4	2 18.1	0.97 2108	1507	5 31.3
27	9 40 41.58	27.26	15 24 51.3	2 25.2	0.97 3615	1490	5 23.9
29	9 41 8.84	28.65	15 22 26.1	2 32.3	0.97 5105	1473	5 16.5
31	9 41 37.49	30.03	15 19 53.8	2 39.2	0.97 6578	1455	5 9.1
Juni 2	9 42 7.52	31.36	15 17 14.6	2 46.1	0.97 8033	1435	5 1.7
4	9 42 38.88	32.67	+15 14 28.5	2 52.6	0.97 9468	1414	4 54.4
6	9 43 11.55	33.93	15 11 35.9	2 59.1	0.98 0882	1392	4 47.1
8	9 43 45.48	35.18	15 8 36.8	3 5.5	0.98 2274	1369	4 39.8
10	9 44 20.66	36.37	15 5 31.3	3 11.8	0.98 3643	1345	4 32.5
12	9 44 57.03	37.56	15 2 19.5	3 17.8	0.98 4988	1320	4 25.2
14	9 45 34.59		14 59 1.7		0.98 6308		4 18.0

Tag	0h mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919	h m s	s	° ' "	' "			h m
Juni 14	9 45 34.59	38.69	+14 59 1.7	3 23.7	0.98 6308	1294	4 18.0
16	9 46 13.28	39.81	14 55 38.0	3 29.7	0.98 7602	1269	4 10.8
18	9 46 53.09	40.89	14 52 8.3	3 35.4	0.98 8871	1240	4 3.6
20	9 47 33.98	41.96	14 48 32.9	3 41.1	0.99 0111	1213	3 56.4
22	9 48 15.94	42.97	14 44 51.8	3 46.5	0.99 1324	1184	3 49.2
24	9 48 58.91	43.98	14 41 5.3	3 51.9	0.99 2508	1154	3 42.1
26	9 49 42.89	44.93	+14 37 13.4	3 57.1	0.99 3662	1124	3 34.9
28	9 50 27.82	45.87	14 33 16.3	4 2.3	0.99 4786	1091	3 27.8
30	9 51 13.69	46.77	14 29 14.0	4 7.1	0.99 5877	1059	3 20.7
Juli 2	9 52 0.46	47.61	14 25 6.9	4 11.8	0.99 6936	1027	3 13.6
4	9 52 48.07	48.42	14 20 55.1	4 16.3	0.99 7963	993	3 6.6
6	9 53 36.49	49.20	14 16 38.8	4 20.7	0.99 8956	959	2 59.5
8	9 54 25.69	49.96	+14 12 18.1	4 25.2	0.99 9915	925	2 52.5
10	9 55 15.65	50.68	14 7 52.9	4 29.1	1.00 0840	889	2 45.4
12	9 56 6.33	51.37	14 3 23.8	4 33.3	1.00 1729	855	2 38.4
14	9 56 57.70	52.02	13 58 50.5	4 36.9	1.00 2584	819	2 31.4
16	9 57 49.72	52.64	13 54 13.6	4 40.8	1.00 3403	783	2 24.4
18	9 58 42.36	53.25	13 49 32.8	4 44.4	1.00 4186	746	2 17.4
20	9 59 35.61	53.80	+13 44 48.4	4 47.8	1.00 4932	710	2 10.4
22	10 0 29.41	54.35	13 40 0.6	4 51.0	1.00 5642	671	2 3.4
24	10 1 23.76	54.84	13 35 9.6	4 54.2	1.00 6313	634	1 56.5
26	10 2 18.60	55.32	13 30 15.4	4 57.0	1.00 6947	595	1 49.5
28	10 3 13.92	55.74	13 25 18.4	4 59.9	1.00 7542	556	1 42.6
30	10 4 9.66	56.15	13 20 18.5	5 2.3	1.00 8098	518	1 35.6
Aug. 1	10 5 5.81	56.50	+13 15 16.2	5 4.8	1.00 8616	478	1 28.7
3	10 6 2.31	56.82	13 10 11.4	5 7.1	1.00 9094	438	1 21.8
5	10 6 59.13	57.13	13 5 4.3	5 9.0	1.00 9532	399	1 14.9
7	10 7 56.26	57.39	12 59 55.3	5 10.9	1.00 9931	359	1 7.9
9	10 8 53.65	57.62	12 54 44.4	5 12.6	1.01 0290	319	1 1.0
11	10 9 51.27	57.82	12 49 31.8	5 14.2	1.01 0609	279	0 54.1
13	10 10 49.09	57.99	+12 44 17.6	5 15.5	1.01 0888	239	0 47.2
15	10 11 47.08	58.14	12 39 2.1	5 16.9	1.01 1127	199	0 40.3
17	10 12 45.22	58.26	12 33 45.2	5 17.9	1.01 1326	158	0 33.4
19	10 13 43.48	58.35	12 28 27.3	5 18.8	1.01 1484	117	0 26.5
21	10 14 41.83	58.40	12 23 8.5	5 19.5	1.01 1601	77	0 19.6
23	10 15 40.23	58.42	12 17 49.0	5 19.9	1.01 1678	35	0 12.7
25	10 16 38.65	58.40	+12 12 29.1	5 20.2	1.01 1713	7	0 5.8
27	10 17 37.05	58.35	12 7 8.9	5 20.3	1.01 1706	47	23 55.5
29	10 18 35.40	58.26	12 1 48.6	5 20.1	1.01 1659	89	23 48.6
31	10 19 33.66	58.15	11 56 28.5	5 19.8	1.01 1570	130	23 41.7
Sept. 2	10 20 31.81	57.98	11 51 8.7	5 19.3	1.01 1440	172	23 34.8
4	10 21 29.79		11 45 49.4		1.01 1268		23 27.9

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	s	° ′ ″	′ ″			h m
Sept. 4	10 21 29.79	57.80	+11 45 49.4	5 18.6	1.01 1268	212	23 27.9
6	10 22 27.59	57.59	11 40 30.8	5 17.6	1.01 1056	252	23 21.0
8	10 23 25.18	57.35	11 35 13.2	5 16.6	1.01 0804	294	23 14.1
10	10 24 22.53	57.07	11 29 56.6	5 15.2	1.01 0510	334	23 7.1
12	10 25 19.60	56.77	11 24 41.4	5 13.8	1.01 0176	374	23 0.2
14	10 26 16.37	56.44	11 19 27.6	5 12.1	1.00 9802	415	22 53.3
16	10 27 12.81	56.09	+11 14 15.5	5 10.3	1.00 9387	455	22 46.4
18	10 28 8.90	55.68	11 9 5.2	5 8.2	1.00 8932	495	22 39.4
20	10 29 4.58	55.25	11 3 57.0	5 5.8	1.00 8437	536	22 32.5
22	10 29 59.83	54.77	10 58 51.2	5 3.2	1.00 7901	576	22 25.5
24	10 30 54.60	54.27	10 53 48.0	5 0.4	1.00 7325	615	22 18.6
26	10 31 48.87	53.73	10 48 47.6	4 57.4	1.00 6710	654	22 11.6
28	10 32 42.60	53.16	+10 43 50.2	4 54.1	1.00 6056	694	22 4.6
30	10 33 35.76	52.55	10 38 56.1	4 50.6	1.00 5362	732	21 57.6
Okt. 2	10 34 28.31	51.90	10 34 5.5	4 46.9	1.00 4630	769	21 50.6
4	10 35 20.21	51.23	10 29 18.6	4 43.0	1.00 3861	807	21 43.6
6	10 36 11.44	50.53	10 24 35.6	4 38.9	1.00 3054	845	21 36.6
8	10 37 1.97	49.79	10 19 56.7	4 34.6	1.00 2209	880	21 29.6
10	10 37 51.76	49.04	+10 15 22.1	4 30.1	1.00 1329	917	21 22.5
12	10 38 40.80	48.23	10 10 52.0	4 25.3	1.00 0412	952	21 15.5
14	10 39 29.03	47.41	10 6 26.7	4 20.4	0.99 9460	988	21 8.4
16	10 40 16.44	46.55	10 2 6.3	4 15.1	0.99 8472	1022	21 1.3
18	10 41 2.99	45.65	9 57 51.2	4 9.7	0.99 7450	1056	20 54.2
20	10 41 48.64	44.71	9 53 41.5	4 3.9	0.99 6394	1090	20 47.1
22	10 42 33.35	43.74	+ 9 49 37.6	3 57.9	0.99 5304	1123	20 40.0
24	10 43 17.09	42.73	9 45 39.7	3 51.8	0.99 4181	1154	20 32.9
26	10 43 59.82	41.69	9 41 47.9	3 45.4	0.99 3027	1186	20 25.7
28	10 44 41.51	40.60	9 38 2.5	3 38.7	0.99 1841	1215	20 18.5
30	10 45 22.11	39.50	9 34 23.8	3 31.9	0.99 0626	1245	20 11.3
Nov. 1	10 46 1.61	38.36	9 30 51.9	3 24.8	0.98 9381	1272	20 4.1
3	10 46 39.97	37.19	+ 9 27 27.1	3 17.6	0.98 8109	1299	19 56.9
5	10 47 17.16	36.00	9 24 9.5	3 10.1	0.98 6810	1326	19 49.6
7	10 47 53.16	34.78	9 20 59.4	3 2.6	0.98 5484	1350	19 42.4
9	10 48 27.94	33.53	9 17 56.8	2 54.8	0.98 4134	1374	19 35.0
11	10 49 1.47	32.25	9 15 2.0	2 46.8	0.98 2760	1397	19 27.7
13	10 49 33.72	30.92	9 12 15.2	2 38.4	0.98 1363	1419	19 20.4
15	10 50 4.64	29.58	+ 9 9 36.8	2 29.9	0.97 9944	1440	19 13.0
17	10 50 34.22	28.20	9 7 6.9	2 21.4	0.97 8504	1459	19 5.6
19	10 51 2.42	26.79	9 4 45.5	2 12.6	0.97 7045	1477	18 58.2
21	10 51 29.21	25.35	9 2 32.9	2 3.5	0.97 5568	1493	18 50.8
23	10 51 54.56	23.88	9 0 29.4	1 54.3	0.97 4075	1508	18 43.4
25	10 52 18.44		8 58 35.1		0.97 2567		18 35.9

Saturn 1919

Tag	0ʰ mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919	h m s	s	° ′ ″	′ ″			h m
Nov. 25	10 52 18.44	22.39	+8 58 35.1	1 45.0	0.97 2567	1521	18 35.9
27	10 52 40.83	20.88	8 56 50.1	1 35.5	0.97 1046	1532	18 28.4
29	10 53 1.71	19.35	8 55 14.6	1 26.0	0.96 9514	1542	18 20.9
Dez. 1	10 53 21.06	17.79	8 53 48.6	1 16.4	0.96 7972	1550	18 13.3
3	10 53 38.85	16.23	8 52 32.2	1 6.5	0.96 6422	1556	18 5.7
5	10 53 55.08	14.65	8 51 25.7	0 56.7	0.96 4866	1561	17 58.1
7	10 54 9.73	13.05	+8 50 29.0	0 46.8	0.96 3305	1564	17 50.5
9	10 54 22.78	11.44	8 49 42.2	0 36.8	0.96 1741	1565	17 42.8
11	10 54 34.22	9.82	8 49 5.4	0 26.6	0.96 0176	1564	17 35.1
13	10 54 44.04	8.17	8 48 38.8	0 16.4	0.95 8612	1562	17 27.4
15	10 54 52.21	6.52	8 48 22.4	0 6.3	0.95 7050	1557	17 19.7
17	10 54 58.73	4.85	8 48 16.1	0 4.0	0.95 5493	1551	17 11.9
19	10 55 3.58	3.17	+8 48 20.1	0 14.3	0.95 3942	1541	17 4.1
21	10 55 6.75	1.50	8 48 34.4	0 24.5	0.95 2401	1531	16 56.3
23	10 55 8.25	0.19	8 48 58.9	0 34.7	0.95 0870	1517	16 48.5
25	10 55 8.06	1.85	8 49 33.6	0 44.9	0.94 9353	1501	16 40.6
27	10 55 6.21	3.50	8 50 18.5	0 54.8	0.94 7852	1483	16 32.7
29	10 55 2.71	5.16	8 51 13.3	1 4.8	0.94 6369	1463	16 24.8
31	10 54 57.55	(3.19)	+8 52 18.1	(0 36.0)	0.94 4906	(723)	16 16.8
32	10 54 54.36		8 52 54.1		0.94 4183		16 12.8

Tag	0h mittlere Zeit Greenwich Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	s	° ′ ″	′ ″			h m
Jan. 1	21 50 51.37	20.93	−13 48 19.5	1 51.9	1.31 5945	509	3 10.0
3	21 51 12.30	21.42	13 46 27.6	1 54.4	1.31 6454	490	3 2.5
5	21 51 33.72	21.88	13 44 33.2	1 56.9	1.31 6944	472	2 55.0
7	21 51 55.60	22.33	13 42 36.3	1 59.2	1.31 7416	452	2 47.5
9	21 52 17.93	22.75	13 40 37.1	2 1.5	1.31 7868	432	2 40.0
11	21 52 40.68	23.16	13 38 35.6	2 3.6	1.31 8300	413	2 32.5
13	21 53 3.84	23.53	−13 36 32.0	2 5.6	1.31 8713	392	2 25.0
15	21 53 27.37	23.90	13 34 26.4	2 7.6	1.31 9105	372	2 17.5
17	21 53 51.27	24.24	13 32 18.8	2 9.4	1.31 9477	351	2 10.1
19	21 54 15.51	24.56	13 30 9.4	2 11.2	1.31 9828	329	2 2.6
21	21 54 40.07	24.86	13 27 58.2	2 12.8	1.32 0157	308	1 55.2
23	21 55 4.93	25.13	13 25 45.4	2 14.3	1.32 0465	286	1 47.7
25	21 55 30.06	25.40	−13 23 31.1	2 15.7	1.32 0751	264	1 40.3
27	21 55 55.46	25.63	13 21 15.4	2 17.0	1.32 1015	241	1 32.8
29	21 56 21.09	25.85	13 18 58.4	2 18.2	1.32 1256	219	1 25.4
31	21 56 46.94	26.03	13 16 40.2	2 19.2	1.32 1475	196	1 17.9
Febr. 2	21 57 12.97	26.19	13 14 21.0	2 20.1	1.32 1671	173	1 10.5
4	21 57 39.16	26.33	13 12 0.9	2 21.0	1.32 1844	149	1 3.1
6	21 58 5.49	26.44	−13 9 39.9	2 21.6	1.32 1993	127	0 55.7
8	21 58 31.93	26.54	13 7 18.3	2 22.2	1.32 2120	103	0 48.2
10	21 58 58.47	26.61	13 4 56.1	2 22.6	1.32 2223	80	0 40.8
12	21 59 25.08	26.65	13 2 33.5	2 22.9	1.32 2303	57	0 33.4
14	21 59 51.73	26.68	13 0 10.6	2 23.1	1.32 2360	34	0 26.0
16	22 0 18.41	26.69	12 57 47.5	2 23.2	1.32 2394	10	0 18.5
18	22 0 45.10	26.67	−12 55 24.3	2 23.2	1.32 2404	13	0 11.1
20	22 1 11.77	26.63	12 53 1.1	2 23.0	1.32 2391	36	0 3.7
22	22 1 38.40	26.58	12 50 38.1	2 22.8	1.32 2355	59	23 52.6
24	22 2 4.98	26.49	12 48 15.3	2 22.4	1.32 2296	83	23 45.1
26	22 2 31.47	26.39	12 45 52.9	2 21.9	1.32 2213	106	23 37.7
28	22 2 57.86	26.26	12 43 31.0	2 21.3	1.32 2107	129	23 30.3
März 2	22 3 24.12	26.11	−12 41 9.7	2 20.5	1.32 1978	152	23 22.9
4	22 3 50.23	25.94	12 38 49.2	2 19.5	1.32 1826	174	23 15.4
6	22 4 16.17	25.74	12 36 29.7	2 18.6	1.32 1652	196	23 8.0
8	22 4 41.91	25.53	12 34 11.1	2 17.4	1.32 1456	219	23 0.5
10	22 5 7.44	25.29	12 31 53.7	2 16.2	1.32 1237	241	22 53.1
12	22 5 32.73	25.03	12 29 37.5	2 14.8	1.32 0996	262	22 45.6
14	22 5 57.76	24.75	−12 27 22.7	2 13.3	1.32 0734	284	22 38.2
16	22 6 22.51	24.46	12 25 9.4	2 11.8	1.32 0450	305	22 30.7
18	22 6 46.97	24.15	12 22 57.6	2 10.1	1.32 0145	325	22 23.3
20	22 7 11.12	23.81	12 20 47.5	2 8.3	1.31 9820	346	22 15.8
22	22 7 34.93	23.46	12 18 39.2	2 6.4	1.31 9474	366	22 8.4
24	22 7 58.39		12 16 32.8		1.31 9108		22 0.9

Uranus 1919

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		0h mittlere Zeit Greenwich: Scheinbare Deklination		0h mittlere Zeit Greenwich: log Δ		Obere Kulmination in Greenwich
1919	h m s	s	° ′ ″	′ ″			h m
März 24	22 7 58.39	23.10	−12 16 32.8	2 4.4	1.31 9108	386	22 0.9
26	22 8 21.49	22.70	12 14 28.4	2 2.3	1.31 8722	406	21 53.4
28	22 8 44.19	22.30	12 12 26.1	2 0.0	1.31 8316	424	21 45.9
30	22 9 6.49	21.87	12 10 26.1	1 57.6	1.31 7892	443	21 38.4
April 1	22 9 28.36	21.42	12 8 28.5	1 55.2	1.31 7449	461	21 30.9
3	22 9 49.78	20.95	12 6 33.3	1 52.6	1.31 6988	479	21 23.4
5	22 10 10.73	20.46	−12 4 40.7	1 49.9	1.31 6509	497	21 15.9
7	22 10 31.19	19.97	12 2 50.8	1 47.1	1.31 6012	513	21 8.4
9	22 10 51.16	19.45	12 1 3.7	1 44.3	1.31 5499	529	21 0.9
11	22 11 10.61	18.93	11 59 19.4	1 41.4	1.31 4970	545	20 53.3
13	22 11 29.54	18.38	11 57 38.0	1 38.4	1.31 4425	560	20 45.8
15	22 11 47.92	17.82	11 55 59.6	1 35.3	1.31 3865	574	20 38.2
17	22 12 5.74	17.26	−11 54 24.3	1 32.0	1.31 3291	589	20 30.6
19	22 12 23.00	16.67	11 52 52.3	1 28.8	1.31 2702	602	20 23.0
21	22 12 39.67	16.08	11 51 23.5	1 25.4	1.31 2100	614	20 15.4
23	22 12 55.75	15.46	11 49 58.1	1 22.0	1.31 1486	627	20 7.8
25	22 13 11.21	14.84	11 48 36.1	1 18.5	1.31 0859	640	20 0.2
27	22 13 26.05	14.20	11 47 17.6	1 14.9	1.31 0219	650	19 52.6
29	22 13 40.25	13.55	−11 46 2.7	1 11.3	1.30 9569	660	19 45.0
Mai 1	22 13 53.80	12.88	11 44 51.4	1 7.5	1.30 8909	669	19 37.3
3	22 14 6.68	12.20	11 43 43.9	1 3.6	1.30 8240	679	19 29.7
5	22 14 18.88	11.53	11 42 40.3	0 59.7	1.30 7561	687	19 22.0
7	22 14 30.41	10.84	11 41 40.6	0 55.9	1.30 6874	694	19 14.3
9	22 14 41.25	10.14	11 40 44.7	0 52.1	1.30 6180	701	19 6.6
11	22 14 51.39	9.44	−11 39 52.6	0 48.1	1.30 5479	707	18 58.9
13	22 15 0.83	8.72	11 39 4.5	0 44.1	1.30 4772	712	18 51.2
15	22 15 9.55	8.01	11 38 20.4	0 40.0	1.30 4060	716	18 43.5
17	22 15 17.56	7.29	11 37 40.4	0 35.9	1.30 3344	720	18 35.7
19	22 15 24.85	6.57	11 37 4.5	0 31.8	1.30 2624	724	18 28.0
21	22 15 31.42	5.83	11 36 32.7	0 27.7	1.30 1900	725	18 20.2
23	22 15 37.25	5.09	−11 36 5.0	0 23.6	1.30 1175	727	18 12.5
25	22 15 42.34	4.35	11 35 41.4	0 19.3	1.30 0448	728	18 4.7
27	22 15 46.69	3.60	11 35 22.1	0 15.1	1.29 9720	728	17 56.9
29	22 15 50.29	2.85	11 35 7.0	0 10.9	1.29 8992	726	17 49.1
31	22 15 53.14	2.10	11 34 56.1	0 6.7	1.29 8266	724	17 41.3
Juni 2	22 15 55.24	1.36	11 34 49.4	0 2.5	1.29 7542	721	17 33.4
4	22 15 56.60	0.61	−11 34 46.9	0 1.7	1.29 6821	718	17 25.6
6	22 15 57.21	0.13	11 34 48.6	0 5.8	1.29 6103	713	17 17.7
8	22 15 57.08	0.87	11 34 54.4	0 9.9	1.29 5390	708	17 9.9
10	22 15 56.21	1.60	11 35 4.3	0 14.0	1.29 4682	701	17 2.0
12	22 15 54.61	2.33	11 35 18.3	0 18.1	1.29 3981	695	16 54.1
14	22 15 52.28		11 35 36.4		1.29 3286		16 46.2

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	s	° ′ ″	′ ″			h m
Juni 14	22 15 52.28	3.05	−11 35 36.4	0 22.1	1.29 3286	687	16 46.2
16	22 15 49.23	3.77	11 35 58.5	0 26.1	1.29 2599	678	16 38.3
18	22 15 45.46	4.48	11 36 24.6	0 30.0	1.29 1921	669	16 30.3
20	22 15 40.98	5.19	11 36 54.6	0 34.0	1.29 1252	659	16 22.4
22	22 15 35.79	5.89	11 37 28.6	0 37.8	1.29 0593	648	16 14.4
24	22 15 29.90	6.58	11 38 6.4	0 41.6	1.28 9945	636	16 6.5
26	22 15 23.32	7.26	−11 38 48.0	0 45.4	1.28 9309	623	15 58.5
28	22 15 16.06	7.93	11 39 33.4	0 49.0	1.28 8686	609	15 50.5
30	22 15 8.13	8.58	11 40 22.4	0 52.6	1.28 8077	595	15 42.5
Juli 2	22 14 59.55	9.22	11 41 15.0	0 56.0	1.28 7482	579	15 34.5
4	22 14 50.33	9.84	11 42 11.0	0 59.4	1.28 6903	563	15 26.5
6	22 14 40.49	10.44	11 43 10.4	1 2.6	1.28 6340	547	15 18.5
8	22 14 30.05	11.03	−11 44 13.0	1 5.8	1.28 5793	529	15 10.4
10	22 14 19.02	11.61	11 45 18.8	1 8.8	1.28 5264	511	15 2.4
12	22 14 7.41	12.16	11 46 27.6	1 11.7	1.28 4753	492	14 54.3
14	22 13 55.25	12.69	11 47 39.3	1 14.6	1.28 4261	473	14 46.2
16	22 13 42.56	13.22	11 48 53.9	1 17.3	1.28 3788	453	14 38.1
18	22 13 29.34	13.71	11 50 11.2	1 19.9	1.28 3335	432	14 30.1
20	22 13 15.63	14.19	−11 51 31.1	1 22.4	1.28 2903	410	14 22.0
22	22 13 1.44	14.65	11 52 53.5	1 24.8	1.28 2493	389	14 13.9
24	22 12 46.79	15.08	11 54 18.3	1 27.0	1.28 2104	366	14 5.8
26	22 12 31.71	15.50	11 55 45.3	1 29.0	1.28 1738	342	13 57.7
28	22 12 16.21	15.88	11 57 14.3	1 30.9	1.28 1396	319	13 49.5
30	22 12 0.33	16.24	11 58 45.2	1 32.7	1.28 1077	295	13 41.4
Aug. 1	22 11 44.09	16.56	−12 0 17.9	1 34.2	1.28 0782	270	13 33.3
3	22 11 27.53	16.87	12 1 52.1	1 35.7	1.28 0512	244	13 25.2
5	22 11 10.66	17.14	12 3 27.8	1 37.0	1.28 0268	219	13 17.0
7	22 10 53.52	17.38	12 5 4.8	1 38.0	1.28 0049	194	13 8.9
9	22 10 36.14	17.61	12 6 42.8	1 39.0	1.27 9855	168	13 0.7
11	22 10 18.53	17.80	12 8 21.8	1 39.9	1.27 9687	141	12 52.5
13	22 10 0.73	17.96	−12 10 1.7	1 40.5	1.27 9546	115	12 44.3
15	22 9 42.77	18.10	12 11 42.2	1 40.9	1.27 9431	88	12 36.2
17	22 9 24.67	18.21	12 13 23.1	1 41.3	1.27 9343	61	12 28.0
19	22 9 6.46	18.30	12 15 4.4	1 41.5	1.27 9282	35	12 19.9
21	22 8 48.16	18.35	12 16 45.9	1 41.5	1.27 9247	7	12 11.7
23	22 8 29.81	18.36	12 18 27.4	1 41.2	1.27 9240	20	12 3.5
25	22 8 11.45	18.34	−12 20 8.6	1 40.9	1.27 9260	48	11 55.3
27	22 7 53.11	18.30	12 21 49.5	1 40.3	1.27 9308	75	11 47.2
29	22 7 34.81	18.22	12 23 29.8	1 39.6	1.27 9383	102	11 39.0
31	22 7 16.59	18.11	12 25 9.4	1 38.8	1.27 9485	129	11 30.9
Sept. 2	22 6 58.48	17.97	12 26 48.2	1 37.7	1.27 9614	156	11 22.7
4	22 6 40.51		12 28 25.9		1.27 9770		11 14.6

Tag	0ʰ mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	s	° ′ ″	′ ″			h m
Sept. 4	22 6 40.51	17.80	−12 28 25.9	1 36.4	1.27 9770	182	11 14.6
6	22 6 22.71	17.60	12 30 2.3	1 35.1	1.27 9952	209	11 6.4
8	22 6 5.11	17.37	12 31 37.4	1 33.6	1.28 0161	235	10 58.3
10	22 5 47.74	17.12	12 33 11.0	1 32.0	1.28 0396	260	10 50.1
12	22 5 30.62	16.84	12 34 43.0	1 30.2	1.28 0656	286	10 41.9
14	22 5 13.78	16.52	12 36 13.2	1 28.2	1.28 0942	311	10 33.8
16	22 4 57.26	16.19	−12 37 41.4	1 26.2	1.28 1253	336	10 25.6
18	22 4 41.07	15.82	12 39 7.6	1 23.9	1.28 1589	361	10 17.5
20	22 4 25.25	15.43	12 40 31.5	1 21.5	1.28 1950	384	10 9.4
22	22 4 9.82	15.00	12 41 53.0	1 19.0	1.28 2334	407	10 1.3
24	22 3 54.82	14.56	12 43 12.0	1 16.3	1.28 2741	430	9 53.2
26	22 3 40.26	14.08	12 44 28.3	1 13.5	1.28 3171	453	9 45.1
28	22 3 26.18	13.57	−12 45 41.8	1 10.6	1.28 3624	474	9 37.0
30	22 3 12.61	13.05	12 46 52.4	1 7.5	1.28 4098	495	9 28.9
Okt. 2	22 2 59.56	12.50	12 47 59.9	1 4.4	1.28 4593	515	9 20.8
4	22 2 47.06	11.93	12 49 4.3	1 1.2	1.28 5108	534	9 12.7
6	22 2 35.13	11.35	12 50 5.5	0 57.8	1.28 5642	553	9 4.6
8	22 2 23.78	10.74	12 51 3.3	0 54.4	1.28 6195	571	8 56.6
10	22 2 13.04	10.11	−12 51 57.7	0 50.8	1.28 6766	588	8 48.5
12	22 2 2.93	9.48	12 52 48.5	0 47.3	1.28 7354	605	8 40.5
14	22 1 53.45	8.83	12 53 35.8	0 43.7	1.28 7959	620	8 32.5
16	22 1 44.62	8.15	12 54 19.5	0 39.8	1.28 8579	635	8 24.5
18	22 1 36.47	7.45	12 54 59.3	0 36.0	1.28 9214	649	8 16.5
20	22 1 29.02	6.75	12 55 35.3	0 32.1	1.28 9863	662	8 8.5
22	22 1 22.27	6.02	−12 56 7.4	0 28.1	1.29 0525	675	8 0.5
24	22 1 16.25	5.29	12 56 35.5	0 24.0	1.29 1200	686	7 52.6
26	22 1 10.96	4.54	12 56 59.5	0 20.0	1.29 1886	697	7 44.6
28	22 1 6.42	3.79	12 57 19.5	0 15.9	1.29 2583	706	7 36.7
30	22 1 2.63	3.02	12 57 35.4	0 11.7	1.29 3289	715	7 28.8
Nov. 1	22 0 59.61	2.26	12 57 47.1	0 7.5	1.29 4004	722	7 20.9
3	22 0 57.35	1.48	−12 57 54.6	0 3.3	1.29 4726	729	7 13.0
5	22 0 55.87	0.70	12 57 57.9	0 0.9	1.29 5455	734	7 5.1
7	22 0 55.17	0.08	12 57 57.0	0 5.2	1.29 6189	740	6 57.2
9	22 0 55.25	0.86	12 57 51.8	0 9.4	1.29 6929	744	6 49.4
11	22 0 56.11	1.64	12 57 42.4	0 13.6	1.29 7673	747	6 41.5
13	22 0 57.75	2.44	12 57 28.8	0 17.8	1.29 8420	749	6 33.7
15	22 1 0.19	3.22	−12 57 11.0	0 22.1	1.29 9169	751	6 25.9
17	22 1 3.41	4.01	12 56 48.9	0 26.4	1.29 9920	751	6 18.1
19	22 1 7.42	4.80	12 56 22.5	0 30.7	1.30 0671	751	6 10.3
21	22 1 12.22	5.59	12 55 51.8	0 34.9	1.30 1422	749	6 2.5
23	22 1 17.81	6.38	12 55 16.9	0 39.1	1.30 2171	747	5 54.7
25	22 1 24.19		12 54 37.8		1.30 2918		5 47.0

Tag	0ʰ mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919	h m s	s	° ′ ″	′ ″			h m
Nov. 25	22 1 24.19	7.16	−12 54 37.8	0 43.2	1.30 2918	744	5 47.0
27	22 1 31.35	7.92	12 53 54.6	0 47.4	1.30 3662	740	5 39.2
29	22 1 39.27	8.69	12 53 7.2	0 51.5	1.30 4402	734	5 31.5
Dez. 1	22 1 47.96	9.44	12 52 15.7	0 55.6	1.30 5136	729	5 23.8
3	22 1 57.40	10.18	12 51 20.1	0 59.5	1.30 5865	722	5 16.1
5	22 2 7.58	10.92	12 50 20.6	1 3.4	1.30 6587	714	5 8.4
7	22 2 18.50	11.64	−12 49 17.2	1 7.3	1.30 7301	707	5 0.7
9	22 2 30.14	12.36	12 48 9.9	1 11.2	1.30 8008	698	4 53.0
11	22 2 42.50	13.05	12 46 58.7	1 14.9	1.30 8706	688	4 45.4
13	22 2 55.55	13.75	12 45 43.8	1 18.7	1.30 9394	677	4 37.7
15	22 3 9.30	14.43	12 44 25.1	1 22.4	1.31 0071	667	4 30.1
17	22 3 23.73	15.09	12 43 2.7	1 25.9	1.31 0738	655	4 22.4
19	22 3 38.82	15.75	−12 41 36.8	1 29.5	1.31 1393	642	4 14.8
21	22 3 54.57	16.39	12 40 7.3	1 32.9	1.31 2035	628	4 7.2
23	22 4 10.96	17.01	12 38 34.4	1 36.3	1.31 2663	615	3 59.6
25	22 4 27.97	17.61	12 36 58.1	1 39.5	1.31 3278	600	3 52.0
27	22 4 45.58	18.20	12 35 18.6	1 42.7	1.31 3878	585	3 44.5
29	22 5 3.78	18.76	12 33 35.9	1 45.8	1.31 4463	569	3 36.9
31	22 5 22.54		−12 31 50.1		1.31 5032		3 29.4

Tag		0ʰ mittlere Zeit Greenwich						Obere Kulmination in Greenwich
		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919								
Jan.	1	8ʰ 44ᵐ 18.49ˢ		+18° 0′ 12.1″		1.46 5083		14ʰ 1.6ᵐ
			23.79ˢ		1′ 34.3″		462	
	5	8 43 54.70		18 1 46.4		1.46 4621		13 45.5
			24.84		1 38.2		393	
	9	8 43 29.86		18 3 24.6		1.46 4228		13 29.3
			25.69		1 41.3		324	
	13	8 43 4.17		18 5 5.9		1.46 3904		13 13.2
			26.37		1 43.7		253	
	17	8 42 37.80		18 6 49.6		1.46 3651		12 57.0
			26.91		1 45.5		180	
	21	8 42 10.89		18 8 35.1		1.46 3471		12 40.9
			27.26		1 46.8		107	
	25	8 41 43.63		+18 10 21.9		1.46 3364		12 24.7
			27.45		1 47.2		32	
	29	8 41 16.18		18 12 9.1		1.46 3332		12 8.5
			27.44		1 47.1		42	
Febr.	2	8 40 48.74		18 13 56.2		1.46 3374		11 52.3
			27.25		1 46.0		118	
	6	8 40 21.49		18 15 42.2		1.46 3492		11 36.1
			26.87		1 44.3		190	
	10	8 39 54.62		18 17 26.5		1.46 3682		11 19.9
			26.33		1 42.1		262	
	14	8 39 28.29		18 19 8.6		1.46 3944		11 3.8
			25.60		1 39.2		332	
	18	8 39 2.69		+18 20 47.8		1.46 4276		10 47.6
			24.74		1 35.8		400	
	22	8 38 37.95		18 22 23.6		1.46 4676		10 31.5
			23.72		1 31.8		466	
	26	8 38 14.23		18 23 55.4		1.46 5142		10 15.4
			22.52		1 27.2		530	
März	2	8 37 51.71		18 25 22.6		1.46 5672		9 59.3
			21.20		1 22.1		589	
	6	8 37 30.51		18 26 44.7		1.46 6261		9 43.2
			19.72		1 16.4		645	
	10	8 37 10.79		18 28 1.1		1.46 6906		9 27.1
			18.13		1 10.5		698	
	14	8 36 52.66		+18 29 11.6		1.46 7604		9 11.1
			16.44		1 4.1		746	
	18	8 36 36.22		18 30 15.7		1.46 8350		8 55.1
			14.66		0 57.4		791	
	22	8 36 21.56		18 31 13.1		1.46 9141		8 39.1
			12.77		0 50.5		831	
	26	8 36 8.79		18 32 3.6		1.46 9972		8 23.2
			10.82		0 43.2		866	
	30	8 35 57.97		18 32 46.8		1.47 0838		8 7.3
			8.78		0 35.7		897	
April	3	8 35 49.19		18 33 22.5		1.47 1735		7 51.4
			6.69		0 27.9		924	
	7	8 35 42.50		+18 33 50.4		1.47 2659		7 35.6
			4.56		0 20.0		945	
	11	8 35 37.94		18 34 10.4		1.47 3604		7 19.8
			2.42		0 12.3		962	
	15	8 35 35.52		18 34 22.7		1.47 4566		7 4.1
			0.25		0 4.3		973	
	19	8 35 35.27		18 34 27.0		1.47 5539		6 48.3
			1.91		0 3.7		981	
	23	8 35 37.18		18 34 23.3		1.47 6520		6 32.6
			4.09		0 11.7		985	
	27	8 35 41.27		18 34 11.6		1.47 7505		6 17.0
			6.26		0 19.7		982	
Mai	1	8 35 47.53		+18 33 51.9		1.47 8487		6 1.4
			8.41		0 27.6		976	
	5	8 35 55.94		18 33 24.3		1.47 9463		5 45.8
			10.52		0 35.4		966	
	9	8 36 6.46		18 32 48.9		1.48 0429		5 30.2
			12.58		0 43.1		950	
	13	8 36 19.04		18 32 5.8		1.48 1379		5 14.7
			14.59		0 50.6		931	
	17	8 36 33.63		18 31 15.2		1.48 2310		4 59.2
			16.54		0 57.9		909	
	21	8 36 50.17		18 30 17.3		1.48 3219		4 43.8
			18.43		1 5.0		883	
	25	8 37 8.60		+18 29 12.3		1.48 4102		4 28.3
			20.28		1 12.0		852	
	29	8 37 28.88		18 28 0.3		1.48 4954		4 12.9
			22.03		1 18.8		820	
Juni	2	8 37 50.91		18 26 41.5		1.48 5774		3 57.6
			23.69		1 25.1		782	
	6	8 38 14.60		18 25 16.4		1.48 6556		3 42.3
			25.27		1 31.2		741	
	10	8 38 39.87		18 23 45.2		1.48 7297		3 27.0
			26.75		1 37.0		700	
	14	8 39 6.62		18 22 8.2		1.48 7997		3 11.7

Tag	0h mittlere Zeit Greenwich: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1919	h m s	s	° ′ ″	′ ″			h m
Juni 14	8 39 6.62	28.12	+18 22 8.2	1 42.6	1.48 7997	654	3 11.7
18	8 39 34.74	29.41	18 20 25.6	1 47.7	1.48 8651	607	2 56.4
22	8 40 4.15	30.61	18 18 37.9	1 52.6	1.48 9258	558	2 41.2
26	8 40 34.76	31.69	18 16 45.3	1 57.1	1.48 9816	504	2 25.9
30	8 41 6.45	32.66	18 14 48.2	2 1.1	1.49 0320	451	2 10.7
Juli 4	8 41 39.11	33.50	18 12 47.1	2 4.7	1.49 0771	395	1 55.6
8	8 42 12.61	34.22	+18 10 42.4	2 8.0	1.49 1166	339	1 40.4
12	8 42 46.83	34.85	18 8 34.4	2 10.8	1.49 1505	280	1 25.2
16	8 43 21.68	35.34	18 6 23.6	2 13.2	1.49 1785	221	1 10.1
20	8 43 57.02	35.74	18 4 10.4	2 15.3	1.49 2006	161	0 54.9
24	8 44 32.76	36.01	18 1 55.1	2 16.8	1.49 2167	100	0 39.8
28	8 45 8.77	36.15	17 59 38.3	2 17.8	1.49 2267	39	0 24.7
Aug. 1	8 45 44.92	36.15	+17 57 20.5	2 18.3	1.49 2306	23	0 9.5
5	8 46 21.07	36.04	17 55 2.2	2 18.4	1.49 2283	84	23 50.6
9	8 46 57.11	35.81	17 52 43.8	2 18.1	1.49 2199	145	23 35.5
13	8 47 32.92	35.47	17 50 25.7	2 17.1	1.49 2054	206	23 20.3
17	8 48 8.39	35.00	17 48 8.6	2 15.8	1.49 1848	266	23 5.2
21	8 48 43.39	34.42	17 45 52.8	2 14.0	1.49 1582	325	22 50.0
25	8 49 17.81	33.70	+17 43 38.8	2 11.6	1.49 1257	384	22 34.9
29	8 49 51.51	32.87	17 41 27.2	2 8.6	1.49 0873	441	22 19.7
Sept. 2	8 50 24.38	31.91	17 39 18.6	2 5.3	1.49 0432	496	22 4.6
6	8 50 56.29	30.85	17 37 13.3	2 1.3	1.48 9936	550	21 49.4
10	8 51 27.14	29.68	17 35 12.0	1 57.1	1.48 9386	601	21 34.1
14	8 51 56.82	28.42	17 33 14.9	1 52.3	1.48 8785	651	21 18.9
18	8 52 25.24	27.04	+17 31 22.6	1 47.0	1.48 8134	698	21 3.6
22	8 52 52.28	25.55	17 29 35.6	1 41.2	1.48 7436	743	20 48.3
26	8 53 17.83	23.95	17 27 54.4	1 35.0	1.48 6693	785	20 33.0
30	8 53 41.78	22.27	17 26 19.4	1 28.3	1.48 5908	823	20 17.7
Okt. 4	8 54 4.05	20.51	17 24 51.1	1 21.3	1.48 5085	858	20 2.3
8	8 54 24.56	18.67	17 23 29.8	1 14.0	1.48 4227	889	19 46.9
12	8 54 43.23	16.77	+17 22 15.8	1 6.3	1.48 3338	918	19 31.5
16	8 55 0.00	14.78	17 21 9.5	0 58.3	1.48 2420	941	19 16.1
20	8 55 14.78	12.74	17 20 11.2	0 49.9	1.48 1479	962	19 0.6
24	8 55 27.52	10.63	17 19 21.3	0 41.4	1.48 0517	977	18 45.1
28	8 55 38.15	8.49	17 18 39.9	0 32.5	1.47 9540	988	18 29.5
Nov. 1	8 55 46.64	6.31	17 18 7.4	0 23.6	1.47 8552	994	18 13.9
5	8 55 52.95	4.13	+17 17 43.8	0 14.6	1.47 7558	996	17 58.3
9	8 55 57.08	1.94	17 17 29.2	0 5.7	1.47 6562	992	17 42.6
13	8 55 59.02	0.28	17 17 23.5	0 3.6	1.47 5570	985	17 26.9
17	8 55 58.74	2.48	17 17 27.1	0 12.6	1.47 4585	972	17 11.2
21	8 55 56.26	4.67	17 17 39.7	0 21.7	1.47 3613	954	16 55.4
25	8 55 51.59		17 18 1.4		1.47 2659		16 39.6

Tag	0h mittlere Zeit Greenwich						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1919							
Nov. 25	8h 55m 51.59s		+17° 18′ 1.4″		1.47 2659		16h 39.6m
		6.82s		0′ 30.6″		931	
29	8 55 44.77		17 18 32.0		1.47 1728		16 23.7
		8.93		0 39.2		902	
Dez. 3	8 55 35.84		17 19 11.2		1.47 0826		16 7.8
		10.94		0 47.4		870	
7	8 55 24.90		17 19 58.6		1.46 9956		15 51.9
		12.90		0 55.5		831	
11	8 55 12.00		17 20 54.1		1.46 9125		15 36.0
		14.80		1 3.3		791	
15	8 54 57.20		17 21 57.4		1.46 8334		15 20.0
		16.61		1 10.6		743	
19	8 54 40.59		+17 23 8.0		1.46 7591		15 4.0
		18.30		1 17.4		693	
23	8 54 22.29		17 24 25.4		1.46 6898		14 48.0
		19.88		1 23.8		637	
27	8 54 2.41		17 25 49.2		1.46 6261		14 31.9
		21.32		1 29.5		579	
31	8 53 41.09		17 27 18.7		1.46 5682		14 15.8

Mittleres Äquinoktium 1925.0

MERKUR 1919

Mittlere Zeit Greenwich	log r	Länge in d. Bahn	Red. a. d. Ekl.	Breite	Mittlere Zeit Greenwich	log r	Länge in d. Bahn	Red. a. d. Ekl.	Breite
1919					1919				
Jan. 0.0	9.5563	157° 55′	+ 8′	+6° 34′	Juli 4.0	9.6136	194° 36′	+12′	+3° 48′
5.0	9.5897	179 21	+13	+5 12	9.0	9.6374	211 24	+ 7	+1 56
10.0	9.6186	197 53	+11	+3 27	14.0	9.6546	226 40	0	+0 6
15.0	9.6412	214 21	+ 6	+1 35	19.0	9.6651	241 1	− 6	−1 38
20.0	9.6571	229 25	− 1	−0 14	24.0	9.6690	254 53	−10	−3 13
25.0	9.6663	243 38	− 7	−1 57	29.0	9.6664	268 42	−13	−4 37
30.0	9.6690	257 28	−11	−3 30	Aug. 3.0	9.6573	282 55	−12	−5 46
Febr. 4.0	9.6652	271 20	−13	−4 51	8.0	9.6415	297 58	− 8	−6 36
9.0	9.6548	285 39	−12	−5 57	13.0	9.6190	314 24	− 1	−7 0
14.0	9.6378	300 55	− 7	−6 43	18.0	9.5902	332 54	+ 7	−6 45
19.0	9.6140	317 41	0	−7 0	23.0	9.5568	354 17	+12	−5 36
24.0	9.5842	336 40	+ 8	−6 37	28.0	9.5229	19 19	+11	−3 18
März 1.0	9.5503	358 41	+13	−5 16	Sept. 2.0	9.4967	48 9	0	+0 5
6.0	9.5171	24 27	+ 9	−2 44	7.0	9.4880	79 30	−12	+3 43
11.0	9.4935	53 55	− 3	+0 47	12.0	9.5009	110 31	−10	+6 14
16.0	9.4888	85 26	−12	+4 18	17.0	9.5295	138 38	+ 1	+7 0
21.0	9.5054	116 5	− 9	+6 31	22.0	9.5638	162 53	+10	+6 19
26.0	9.5358	143 29	+ 3	+6 58	27.0	9.5965	183 37	+13	+4 51
31.0	9.5702	167 1	+11	+6 5	Okt. 2.0	9.6241	201 38	+10	+3 3
April 5.0	9.6021	187 11	+13	+4 31	7.0	9.6452	217 45	+ 4	+1 11
10.0	9.6286	204 47	+ 9	+2 42	12.0	9.6596	232 35	− 2	−0 37
15.0	9.6484	220 37	+ 3	+0 50	17.0	9.6675	246 40	− 8	−2 18
20.0	9.6616	235 16	− 3	−0 57	22.0	9.6687	260 29	−12	−3 49
25.0	9.6682	249 16	− 9	−2 36	27.0	9.6635	274 24	−13	−5 7
30.0	9.6682	263 4	−12	−4 4	Nov. 1.0	9.6517	288 54	−11	−6 9
Mai 5.0	9.6618	277 4	−13	−5 20	6.0	9.6331	304 26	− 6	−6 49
10.0	9.6487	291 43	−10	−6 18	11.0	9.6080	321 37	+ 2	−6 59
15.0	9.6289	307 31	− 4	−6 54	16.0	9.5771	341 11	+ 9	−6 24
20.0	9.6026	325 5	+ 3	−6 56	21.0	9.5427	3 59	+13	−4 49
25.0	9.5707	345 12	+11	−6 12	26.0	9.5108	30 36	+ 7	−2 2
30.0	9.5363	8 40	+13	−4 23	Dez. 1.0	9.4906	60 43	− 6	+1 36
Juni 4.0	9.5058	36 1	+ 5	−1 23	6.0	9.4907	92 19	−13	+4 56
9.0	9.4889	66 37	− 8	+2 18	11.0	9.5112	122 23	− 7	+6 46
14.0	9.4932	98 10	−13	+5 25	16.0	9.5432	148 57	+ 5	+6 52
19.0	9.5166	127 41	− 4	+6 54	21.0	9.5775	171 41	+12	+5 47
24.0	9.5497	153 30	+ 7	+6 44	26.0	9.6084	191 13	+12	+4 8
29.0	9.5837	175 34	+12	+5 30	31.0	9.6335	208 22	+ 8	+2 17
Juli 4.0	9.6136	194 36	+12	+3 48	36.0	9.6519	223 53	+ 2	+0 26

$☊ = 47° 27'.0$; $i = 7° 0'.22$; $m = \frac{1}{6000000}$

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1925.0							
	log r	Länge in der Bahn	Red. auf d. Eklipt.	Breite	log r	Länge in der Bahn	Red. auf d. Eklipt.	Breite
	VENUS 1919				MARS 1919			
1919		° ′	′	° ′		° ′	′	° ′
Jan. −5.0	9.86215	292 31.6	−2.9	−2 1.1	0.14073	326 18.4	+0.2	−1 50.1
+5.0	9.86229	308 20.1	−2.9	−2 41.1	0.14037	332 38.9	+0.4	−1 47.9
15.0	9.86220	324 8.5	−2.1	−3 8.9	0.14046	338 59.7	+0.6	−1 44.3
25.0	9.86190	339 57.7	−0.6	−3 22.5	0.14100	345 19.9	+0.7	−1 39.5
Febr. 4.0	9.86140	355 48.7	+1.0	−3 20.7	0.14198	351 38.8	+0.8	−1 33.5
14.0	9.86074	11 42.3	+2.4	−3 3.5	0.14340	357 55.6	+0.9	−1 26.4
24.0	9.85997	27 39.1	+3.0	−2 32.2	0.14521	4 9.6	+0.9	−1 18.3
März 6.0	9.85914	43 39.4	+2.7	−1 49.0	0.14739	10 20.1	+0.9	−1 9.4
16.0	9.85833	59 43.3	+1.6	−0 57.1	0.14992	16 26.6	+0.8	−0 59.8
26.0	9.85760	75 50.7	0.0	−0 0.6	0.15274	22 28.7	+0.7	−0 49.6
April 5.0	9.85700	92 1.1	−1.6	+0 56.1	0.15583	28 25.9	+0.6	−0 39.0
15.0	9.85658	108 13.8	−2.7	+1 48.5	0.15913	34 17.8	+0.4	−0 28.2
25.0	9.85638	124 27.9	−3.0	+2 32.3	0.16260	40 4.3	+0.3	−0 17.2
Mai 5.0	9.85641	140 42.3	−2.3	+3 4.0	0.16621	45 45.2	+0.1	−0 6.3
15.0	9.85668	156 56.1	−0.9	+3 21.0	0.16991	51 20.4	−0.1	+0 4.5
25.0	9.85715	173 8.2	+0.7	+3 22.0	0.17366	56 49.9	−0.2	+0 15.1
Juni 4.0	9.85779	189 17.8	+2.2	+3 7.0	0.17743	62 13.7	−0.4	+0 25.4
14.0	9.85856	205 24.3	+3.0	+2 37.4	0.18118	67 31.9	−0.5	+0 35.3
24.0	9.85938	221 27.2	+2.8	+1 55.5	0.18488	72 44.8	−0.7	+0 44.7
Juli 4.0	9.86019	237 26.5	+1.8	+1 4.8	0.18850	77 52.4	−0.8	+0 53.6
14.0	9.86093	253 22.3	+0.3	+0 9.4	0.19202	82 55.0	−0.8	+1 1.9
24.0	9.86155	269 15.1	−1.3	−0 46.6	0.19541	87 52.8	−0.9	+1 9.7
Aug. 3.0	9.86200	285 5.5	−2.6	−1 38.9	0.19866	92 46.1	−0.9	+1 16.8
13.0	9.86225	300 54.4	−3.0	−2 23.6	0.20173	97 35.2	−0.9	+1 23.3
23.0	9.86227	316 42.8	−2.6	−2 57.5	0.20463	102 20.3	−0.9	+1 29.1
Sept. 2.0	9.86207	332 31.5	−1.4	−3 18.0	0.20733	107 1.8	−0.8	+1 34.2
12.0	9.86166	348 21.6	+0.2	−3 23.4	0.20982	111 39.9	−0.7	+1 38.6
22.0	9.86107	4 13.9	+1.8	−3 13.4	0.21209	116 15.0	−0.6	+1 42.4
Okt. 2.0	9.86035	20 9.1	+2.8	−2 48.5	0.21414	120 47.3	−0.5	+1 45.5
12.0	9.85955	36 7.6	+3.0	−2 10.5	0.21595	125 17.3	−0.4	+1 47.9
22.0	9.85873	52 9.7	+2.2	−1 22.3	0.21752	129 45.2	−0.3	+1 49.6
Nov. 1.0	9.85795	68 15.4	+0.8	−0 27.5	0.21884	134 11.3	−0.1	+1 50.6
11.0	9.85728	84 24.4	−0.9	+0 29.7	0.21991	138 35.9	0.0	+1 51.0
21.0	9.85677	100 36.0	−2.3	+1 24.7	0.22073	142 59.3	+0.1	+1 50.8
Dez. 1.0	9.85646	116 49.5	−3.0	+2 13.0	0.22130	147 22.0	+0.3	+1 49.9
11.0	9.85638	133 3.9	−2.8	+2 50.8	0.22160	151 44.1	+0.4	+1 48.3
21.0	9.85653	149 18.1	−1.7	+3 15.0	0.22164	156 6.0	+0.5	+1 46.1
31.0	9.85690	165 31.0	−0.1	+3 23.6	0.22143	160 28.0	+0.6	+1 43.3
41.0	9.85747	181 41.9	+1.6	+3 16.0	0.22096	164 50.4	+0.7	+1 39.9

Venus: $\Omega = 76^\circ\ 1'.3$; $i = 3^\circ\ 23'.64$; $m = \frac{1}{408000}$

Mars: $\Omega = 48^\circ\ 59'.8$; $i = 1^\circ\ 51'.04$; $m = \frac{1}{3093500}$

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1925.0						
	log *R*	Länge	log *r*	Länge in der Bahn	Red. auf d.Eklipt.	Breite	B_0
	ERDE 1919		JUPITER 1919				
1919		° ′		° ′ ″	″	° ′ ″	″
Jan. −5.0	9.99274	94 0.3	0.714122	100 17 10.5	− 0.6	+0 0 52.7	+4.3
+5.0	9.99268	104 11.8	0.714425	101 7 25.4	− 1.4	+0 2 1.6	+4.4
15.0	9.99285	114 23.2	0.714728	101 57 36.0	− 2.1	+0 3 10.3	+4.5
25.0	9.99324	124 33.8	0.715032	102 47 42.5	− 2.9	+0 4 18.9	+4.5
Febr. 4.0	9.99384	134 43.0	0.715335	103 37 44.9	− 3.7	+0 5 27.3	+4.6
14.0	9.99462	144 50.2	0.715638	104 27 43.0	− 4.4	+0 6 35.5	+4.6
24.0	9.99556	154 55.1	0.715940	105 17 37.0	− 5.2	+0 7 43.5	+4.7
März 6.0	9.99663	164 57.1	0.716242	106 7 26.9	− 5.9	+0 8 51.4	+4.7
16.0	9.99780	174 56.0	0.716544	106 57 12.6	− 6.7	+0 9 59.1	+4.8
26.0	9.99902	184 51.7	0.716845	107 46 54.2	− 7.4	+0 11 6.6	+4.8
April 5.0	0.00027	194 43.9	0.717146	108 36 31.6	− 8.2	+0 12 13.8	+4.9
15.0	0.00150	204 32.8	0.717446	109 26 4.9	− 8.9	+0 13 20.8	+4.9
25.0	0.00268	214 18.4	0.717745	110 15 34.1	− 9.7	+0 14 27.6	+5.0
Mai 5.0	0.00378	224 0.9	0.718044	111 4 59.3	−10.4	+0 15 34.1	+5.0
15.0	0.00477	233 40.6	0.718342	111 54 20.4	−11.1	+0 16 40.3	+5.1
25.0	0.00561	243 17.9	0.718639	112 43 37.4	−11.8	+0 17 46.2	+5.1
Juni 4.0	0.00629	252 53.2	0.718935	113 32 50.3	−12.5	+0 18 51.7	+5.2
14.0	0.00679	262 26.9	0.719230	114 21 59.3	−13.2	+0 19 56.9	+5.2
24.0	0.00709	271 59.5	0.719524	115 11 4.3	−13.8	+0 21 1.8	+5.3
Juli 4.0	0.00720	281 31.6	0.719817	116 0 5.3	−14.4	+0 22 6.4	+5.3
14.0	0.00710	291 3.7	0.720109	116 49 2.4	−15.1	+0 23 10.6	+5.4
24.0	0.00680	300 36.3	0.720400	117 37 55.6	−15.7	+0 24 14.4	+5.4
Aug. 3.0	0.00630	310 10.0	0.720690	118 26 44.8	−16.3	+0 25 17.9	+5.4
13.0	0.00563	319 45.2	0.720978	119 15 30.1	−16.9	+0 26 21.0	+5.5
23.0	0.00479	329 22.5	0.721265	120 4 11.5	−17.5	+0 27 23.7	+5.5
Sept. 2.0	0.00381	339 2.1	0.721551	120 52 49.0	−18.1	+0 28 26.0	+5.6
12.0	0.00272	348 44.6	0.721835	121 41 22.8	−18.6	+0 29 27.9	+5.6
22.0	0.00154	358 30.1	0.722117	122 29 52.8	−19.2	+0 30 29.3	+5.6
Okt. 2.0	0.00031	8 18.8	0.722398	123 18 19.1	−19.7	+0 31 30.3	+5.6
12.0	9.99906	18 11.0	0.722678	124 6 41.6	−20.2	+0 32 30.8	+5.7
22.0	9.99783	28 6.5	0.722956	124 55 0.4	−20.7	+0 33 30.9	+5.7
Nov. 1.0	9.99666	38 5.4	0.723232	125 43 15.5	−21.2	+0 34 30.5	+5.7
11.0	9.99558	48 7.4	0.723506	126 31 27.0	−21.6	+0 35 29.6	+5.8
21.0	9.99463	58 12.2	0.723779	127 19 34.9	−22.0	+0 36 28.2	+5.8
Dez. 1.0	9.99385	68 19.4	0.724050	128 7 39.1	−22.5	+0 37 26.3	+5.8
11.0	9.99325	78 28.5	0.724319	128 55 39.7	−22.9	+0 38 23.9	+5.8
21.0	9.99285	88 39.1	0.724585	129 43 36.8	−23.3	+0 39 21.0	+5.9
31.0	9.99268	98 50.5	0.724850	130 31 30.4	−23.6	+0 40 17.6	+5.9
41.0	(9.99273)	(109 2.2)	0.725113	131 19 20.6	−24.0	+0 41 13.6	+5.9
	$m = \frac{1}{329390}$		$\Omega = 99°41'52''.2$; $i = 1°18'26''.4$; $m = \frac{1}{1047.35}$				

Mittlere Zeit Greenwich	Mittleres Äquinoktium 1925.0 log r	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0

SATURN 1919

Mittlere Zeit Greenwich	log r	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1918 Dez. 16.0	0.963688	142° 46′ 20″.8	−84″.0	+1° 14′ 0″.0	−11″.5
1919 Jan. 25.0	0.964154	144 12 39.9	−86.4	+1 17 14.0	−11.6
März 6.0	0.964629	145 38 47.9	−88.6	+1 20 24.7	−11.7
April 15.0	0.965111	147 4 44.7	−90.5	+1 23 31.9	−11.8
Mai 25.0	0.965601	148 30 30.1	−92.2	+1 26 35.6	−11.8
Juli 4.0	0.966098	149 56 3.8	−93.7	+1 29 35.6	−11.9
Aug. 13.0	0.966601	151 21 25.6	−94.9	+1 32 31.9	−11.9
Sept. 22.0	0.967111	152 46 35.6	−95.9	+1 35 24.4	−11.9
Nov. 1.0	0.967627	154 11 33.5	−96.7	+1 38 13.1	−11.9
Dez. 11.0	0.968148	155 36 19.3	−97.2	+1 40 57.7	−11.9
1920 Jan. 20.0	0.968674	157 0 52.9	−97.5	+1 43 38.2	−12.0

☊ $= 113° \, 0' \, 20''.6$; $i = 2° \, 29' \, 28''.7$; $m = \frac{1}{3501.6}$

URANUS 1919

Mittlere Zeit Greenwich	log r	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1918 Dez. 16.0	1.301388	327° 5′ 54″.2	−5″.1	−0° 44′ 26″.2	+0″.9
1919 Jan. 25.0	1.301445	327 31 42.2	−5.0	−0 44 32.0	+1.0
März 6.0	1.301502	327 57 29.5	−4.9	−0 44 37.7	+1.0
April 15.0	1.301557	328 23 16.4	−4.8	−0 44 43.2	+1.1
Mai 25.0	1.301611	328 49 2.8	−4.6	−0 44 48.6	+1.1
Juli 4.0	1.301665	329 14 48.7	−4.5	−0 44 53.8	+1.2
Aug. 13.0	1.301717	329 40 34.1	−4.4	−0 44 58.9	+1.2
Sept. 22.0	1.301769	330 6 19.1	−4.3	−0 45 3.8	+1.2
Nov. 1.0	1.301820	330 32 3.7	−4.1	−0 45 8.6	+1.3
Dez. 11.0	1.301870	330 57 47.8	−4.0	−0 45 13.2	+1.3
1920 Jan. 20.0	1.301919	331 23 31.4	−3.9	−0 45 17.6	+1.3

☊ $= 73° \, 37'$; $i = 0° \, 46' \, 22''$; $m = \frac{1}{22869}$

NEPTUN 1919

Mittlere Zeit Greenwich	log r	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1918 Dez. 16.0	1.477789	127° 45′ 14″.4	+5″.6	−0° 5′ 56″.3	+0″.3
1919 Jan. 25.0	1.477806	127 59 39.4	+5.1	−0 5 29.5	+0.3
März 6.0	1.477823	128 14 4.3	+4.7	−0 5 2.7	+0.3
April 15.0	1.477839	128 28 29.2	+4.3	−0 4 35.9	+0.3
Mai 25.0	1.477856	128 42 54.0	+3.9	−0 4 9.1	+0.3
Juli 4.0	1.477872	128 57 18.8	+3.5	−0 3 42.3	+0.3
Aug. 13.0	1.477888	129 11 43.6	+3.1	−0 3 15.5	+0.3
Sept. 22.0	1.477904	129 26 8.4	+2.7	−0 2 48.7	+0.3
Nov. 1.0	1.477920	129 40 33.1	+2.2	−0 2 22.0	+0.2
Dez. 11.0	1.477935	129 54 57.7	+1.8	−0 1 55.2	+0.2
1920 Jan. 20.0	1.477950	130 9 22.2	+1.4	−0 1 28.4	+0.2

☊ $= 130° \, 57'$; $i = 1° \, 46' \, 37''$; $m = \frac{1}{19314}$

Mittlere und Scheinbare Sternörter 1919

Reduktionsgrößen

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
1	α Androm.	2.1	A	0h 4m 11s.821	+3s.0967	+ 107	+28° 38′ 35″.73	+19″.881	− 161
2	β Cassiopeiae	2.2	F 5	0 4 50.742	+3.1868	+ 676	+58 42 10.83	+19.861	− 180
3	ε Phoenicis	3.8	K	0 5 18.179	+3.0504	+ 99	−46 11 40.10	+19.848	− 192
4	[22 Androm.]	5.2	F	0 6 6.257	+3.1098	+ 8	+45 37 17.34	+20.035	− 3
5	[χ² Sculptoris]	5.5	K	0 7 27.761	+3.0497	+ 4	−28 15 3.86	+20.041	+ 6
6	[ϑ Sculptoris]	5.3	F 5 p	0 7 37.002	+3.0513	+ 104	−35 35 11.72	+20.158	+ 124
7	γ Pegasi	2.7	B 2	0 9 3.749	+3.0866	+ 1	+14 43 59.58	+20.016	− 14
8	[Br. 6]	6.5	A	0 11 36.803	+3.3614	+ 67	+76 30 2.64	+20.021	+ 2
9	ι Ceti	3.5	K	0 15 18.058	+3.0567	− 15	− 9 16 22.55	+19.969	− 32
10	ζ Tucanae	4.2	F 8	0 15 51.519	+3.1415	+2702	−65 21 3.22	+21.151	+1154
11	β Hydri	2.8	G	0 21 31.035	+3.1951	+6975	−77 42 37.43	+20.275	+ 318
12	α Phoenicis	2.3	K	0 22 16.948	+2.9696	+ 168	−42 44 45.52	+19.542	− 409
13	12 Ceti	6.1	K	0 25 54.305	+3.0618	+ 8	− 4 24 17.23	+19.909	− 8
14	[Ceti 49 G.]	5.3	A 5	0 26 19.746	+3.0012	− 25	−24 14 8.78	+19.922	+ 9
15	[λ¹ Phoenicis]	4.7	A 2	0 27 30.689	+2.8992	+ 123	−49 15 5.36	+19.913	+ 12
16	[κ Cassiop.]	4.2	B	0 28 23.012	+3.3908	+ 11	+62 29 5.70	+19.895	+ 3
17	ζ Cassiopeiae	3.8	B 2	0 32 26.964	+3.3294	+ 23	+53 27 4.63	+19.838	− 7
18	π Androm.	4.2	B 3	0 32 33.000	+3.1985	+ 17	+33 16 24.99	+19.844	0
19	[ε Androm.]	4.3	G 5	0 34 16.264	+3.1651	− 173	+28 52 19.61	+19.571	− 251
20	δ Androm.	3.2	K	0 34 59.521	+3.2026	+ 106	+30 25 4.67	+19.729	− 84
21	α Cassiopeiae	(2.2)	K	0 35 54.015	+3.3888	+ 60	+56 5 35.91	+19.777	− 29
22	β Ceti	2.2	K	0 39 31.455	+3.0123	+ 160	−18 25 51.76	+19.787	+ 39
23	[η Phoenicis]	4.3	A	0 39 43.166	+2.7057	+ 5	−57 54 26.53	+19.737	− 8
25	ο Cassiopeiae	4.7	B 2	0 40 12.229	+3.3324	+ 22	+47 50 28.42	+19.730	− 8
24	21 Cassiopeiae	5.8	A 2	0 40 16.288	+3.9120	− 57	+74 32 43.84	+19.714	− 23
26	[λ² Sculptoris]	5.9	K 5	0 40 17.159	+2.9021	+ 178	−38 52 4.44	+19.851	+ 115
27	ζ Androm.	4.1	K	0 43 2.481	+3.1754	− 75	+23 49 36.22	+19.614	− 79
28	[δ Piscium]	4.4	K 5	0 44 28.675	+3.1102	+ 52	+ 7 8 39.98	+19.623	− 46
31	[λ Hydri]	5.3	K 5	0 45 47.278	+2.0971	+ 399	−75 21 51.31	+19.620	− 26
29	[Br. 82]	5.7	F	0 45 47.882	+3.6179	+ 59	+63 48 24.59	+19.642	− 5
30	[19 Ceti]	5.4	F	0 46 4.173	+3.0045	− 159	−11 4 49.26	+19.419	− 223
32	γ Cassiopeiae	2.0	B p	0 51 48.415	+3.6011	+ 37	+60 16 42.19	+19.531	− 4
34	[λ² Tucanae]	5.3	G 5	0 51 58.821	+2.2454	− 33	−69 57 53.98	+19.487	− 45
33	μ Androm.	3.9	A 2	0 52 15.080	+3.3221	+ 129	+38 3 37.03	+19.563	+ 36
35	α Sculptoris	4.1	B 5	0 54 42.198	+2.8913	− 5	−29 47 42.44	+19.472	− 5
36	ε Piscium	4.2	G 5	0 58 44.240	+3.1115	− 55	+ 7 27 15.68	+19.421	+ 30
37	[26 Ceti]	6.2	A	0 59 38.836	+3.0863	+ 81	+ 0 55 58.43	+19.331	− 39
38	β Phoenicis	3.2	K	1 2 28.197	+2.6792	− 56	−47 9 8.80	+19.290	− 15
39	[ι Tucanae]	5.5	K	1 4 6.349	+2.3827	+ 100	−62 12 27.66	+19.262	− 4
40	[η Ceti]	3.3	K	1 4 30.859	+3.0169	+ 138	−10 36 40.90	+19.125	− 132

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
				h m s	s		° ′ ″	″	
42	β Androm.	2.1	M a	1 5 11.477	+3.3522	+ 151	+35 11 29.29	+19.127	−113
41	[44 H. Ceph.]	5.7	A	1 5 13.158	+5.0807	+ 332	+79 14 36.03	+19.248	+ 9
43	[τ Piscium]	4.3	K p	1 7 11.673	+3.2982	+ 56	+29 39 35.43	+19.149	− 41
44	[Sculpt. 102 G.]	6.0	A 2	1 9 1.496	+2.7636	+ 39	−38 17 7.77	+19.116	− 27
45	υ Piscium	4.6	A 2	1 15 0.584	+3.2915	+ 15	+26 50 19.17	+18.971	− 11
47	ϑ Ceti	3.4	K	1 19 58.448	+2.9980	− 55	− 8 36 3.54	+18.623	−214
46	[ψ Cassiop.]	5.0	K	1 20 11.393	+4.2035	+ 134	+67 42 28.00	+18.864	+ 33
48	δ Cassiopeiae	2.7	A 5	1 20 30.192	+3.9030	+ 398	+59 48 53.26	+18.778	− 43
49	[γ Phoenicis]	3.2	K 5	1 24 50.886	+2.6063	− 38	−43 43 58.82	+18.470	−218
50	η Piscium	3.6	G 5	1 27 8.747	+3.2065	+ 15	+14 55 42.97	+18.606	− 7
51	40 Cassiopeiae	5.5	K	1 32 0.703	+4.7399	− 19	+72 37 40.28	+18.445	− 6
52	υ Persei	3.6	K	1 33 0.679	+3.6695	+ 64	+48 13 5.91	+18.304	−113
53	[Hydri 14 G.]	6.3	G 2	1 33 5.985	+0.3703	− 70	−78 54 57.37	+18.286	−128
54	α Eridani	1	B 5	1 34 41.999	+2.2377	+ 122	−57 38 52.79	+18.320	− 38
55	43 Cassiopeiae	5.9	A p	1 36 19.177	+4.4065	+ 88	+67 38 2.38	+18.300	− 2
56	[ν Piscium]	4.5	K	1 37 12.844	+3.1199	− 16	+ 5 4 41.19	+18.271	+ 2
58	[Sculpt. 129 G.]	5.8	A	1 38 28.714	+2.6437	− 58	−37 14 26.16	+18.200	− 23
57	φ Persei	4.1	B p	1 38 34.423	+3.7460	+ 26	+50 16 52.35	+18.205	− 15
59	τ Ceti	3.4	K	1 40 18.296	+2.7869	−1195	−16 21 49.39	+19.008	+852
60	o Piscium	4.3	G 5	1 41 6.831	+3.1652	+ 47	+ 8 45 1.89	+18.176	+ 50
61	Lac. ε Sculpt.	5.3	A	1 41 51.096	+2.8091	+ 99	−25 27 26.21	+18.023	− 75
62	ζ Ceti	3.5	K	1 47 27.685	+2.9604	+ 22	−10 44 5.22	+17.848	− 34
64	α Trianguli	3.5	F 5	1 48 27.552	+3.4140	+ 11	+29 11 5.13	+17.610	−233
63	ε Cassiopeiae	3.3	B 5	1 48 33.024	+4.2882	+ 50	+63 16 18.75	+17.824	− 15
65	ξ Piscium	4.6	K	1 49 21.619	+3.1039	+ 13	+ 2 47 17.09	+17.825	+ 19
66	β Arietis	2.7	A 5	1 50 9.679	+3.3092	+ 65	+20 24 45.40	+17.665	−109
67	ψ Phoenicis	4.5	M b	1 50 23.968	+2.4062	− 95	−46 41 57.07	+17.663	−101
68	χ Eridani	3.6	G 5	1 52 48.326	+2.3353	+ 712	−52 0 43.05	+17.936	+271
69	[η^2 Hydri]	4.7	K	1 52 52.807	+1.5170	+ 119	−68 2 43.75	+17.742	+ 79
71	υ Ceti	3.9	M a	1 56 11.306	+2.8266	+ 91	−21 28 11.37	+17.510	− 14
72	α Hydri	2.9	F	1 56 13.020	+1.8901	+ 361	−61 57 49.48	+17.544	+ 21
70	50 Cassiopeiae	4.0	A	1 56 29.156	+5.0687	− 91	+72 1 48.66	+17.536	+ 25
73	γ Androm.	2.1	K p	1 58 55.188	+3.6724	+ 43	+41 56 29.80	+17.353	− 54
74	α Arietis	2.0	K 2	2 2 36.166	+3.3767	+ 137	+23 4 48.20	+17.102	−143
75	β Trianguli	3.0	A 5	2 4 43.059	+3.5623	+ 122	+34 36 17.24	+17.110	− 40
76	55 Cassiopeiae	6.3	F	2 8 6.310	+4.6743	− 10	+66 8 44.33	+16.997	+ 3
77	[6 Persei]	5.7	G 5	2 8 12.486	+3.9756	+ 367	+50 41 24.80	+16.821	−169
78	Lac. μ Forn.	5.2	A	2 9 20.491	+2.6428	+ 13	−31 6 12.14	+16.939	+ 2
79	[γ Trianguli]	4.2	A	2 12 29.585	+3.5592	+ 37	+33 28 23.90	+16.744	− 44
80	67 Ceti	5.8	A	2 12 56.519	+2.9909	+ 55	− 6 47 41.62	+16.657	−110

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ′ ″	″	
82	[φ Eridani]	3.5	B 8	2 13 36.900	+2.1430	+ 81	−51 53 12.61	+16.698	− 36
81	[ϑ Arietis]	5.7	A	2 13 36.976	+3.3327	− 10	+19 31 37.41	+16.733	− 2
83	[κ Fornacis]	5.4	F	2 18 50.166	+2.7452	+ 142	−24 11 2.12	+16.416	− 63
84	[λ Horologii]	5.5	F	2 22 37.976	+1.6765	− 95	−60 40 27.25	+16.150	−137
85	ξ² Ceti	4.2	A	2 23 50.994	+3.1869	+ 26	+ 8 5 51.51	+16.221	− 4
86	[κ Eridani]	4.1	B 5	2 24 0.898	+2.1980	− 2	−48 4 1.58	+16.193	− 23
88	[λ¹ Fornacis]	6.0	K	2 29 44.284	+2.4995	− 43	−35 0 21.23	+15.885	− 32
87	36 H. Cassiop.	5.4	K	2 30 17.867	+5.6458	− 60	+72 27 54.66	+15.908	+ 21
90	μ Hydri	5.5	K	2 33 21.251	−1.3365	+ 472	−79 27 46.52	+15.690	− 33
89	ν Arietis	5.6	A	2 34 12.764	+3.4018	− 9	+21 36 42.75	+15.661	− 16
91	δ Ceti	3.9	B 2	2 35 19.729	+3.0730	+ 7	− 0 1 12.96	+15.613	− 2
92	[Br. 366]	6.3	A	2 37 50.056	+5.1237	+ 25	+67 28 53.72	+15.447	− 29
95	[ε Hydri]	4.0	B 9	2 38 20.292	+0.9152	+ 169	−68 36 49.84	+15.454	+ 5
93	ϑ Persei	4.1	G	2 38 39.487	+4.0846	+ 346	+48 53 12.17	+15.343	− 88
94	[35 Arietis]	4.7	B 8	2 38 41.622	+3.5146	+ 4	+27 21 47.75	+15.422	− 7
96	[γ Ceti]	3.4	A	2 39 6.082	+3.1061	− 98	+ 2 53 42.40	+15.258	−148
97	π Ceti	4.0	B 5	2 40 16.009	+2.8542	− 8	−14 12 3.95	+15.332	− 9
98	μ Ceti	4.2	A 5	2 40 33.637	+3.2399	+ 189	+ 9 46 22.25	+15.293	− 31
99	[η Persei]	3.8	K	2 44 46.578	+4.3589	+ 28	+55 33 37.09	+15.073	− 11
100	41 Arietis	3.6	B 8	2 45 12.681	+3.5258	+ 51	+26 55 38.82	+14.946	−113
101	β Fornacis	4.4	K	2 45 42.003	+2.5103	+ 63	−32 44 43.93	+15.189	+159
102	τ² Eridani	4.8	K	2 47 21.839	+2.7206	− 39	−21 20 14.74	+14.904	− 29
103	τ Persei	4.0	G p	2 48 30.254	+4.2383	+ 3	+52 25 55.02	+14.866	− 2
104	η Eridani	3.7	K	2 52 28.154	+2.9296	+ 52	− 9 13 11.54	+14.414	−218
106	ϑ Eridani	2.9	A 2	2 55 11.297	+2.2724	− 67	−40 37 43.11	+14.496	+ 28
105	47 H. Cephei	5.8	K 5	2 55 15.253	+7.8659	− 113	+79 6 1.95	+14.486	+ 22
107	α Ceti	2.5	M a	2 58 2.578	+3.1336	− 9	+ 3 46 21.68	+14.218	− 76
108	γ Persei	3.0	G p	2 58 55.149	+4.3296	+ 2	+53 11 24.88	+14.237	− 4
109	ρ Persei	(3.8)	M b	2 59 58.775	+3.8364	+ 114	+38 31 38.46	+14.072	−103
110	μ Horologii	5.1	F	3 1 42.079	+1.4088	− 117	−60 3 5.89	+14.000	− 68
113	[ϑ Hydri]	5.7	A	3 2 4.630	+0.1048	+ 51	−72 13 7.31	+14.067	+ 22
111	β Persei	(2.2)	B 8	3 2 53.512	+3.8948	+ 7	+40 38 40.37	+13.993	− 1
112	[ι Persei]	4.1	G	3 3 12.727	+4.3163	+1295	+49 18 17.54	+13.893	− 82
114	δ Arietis	4.3	K	3 6 59.618	+3.4264	+ 106	+19 25 16.43	+13.731	− 4
117	12 Eridani	3.6	F 8	3 8 37.741	+2.5468	+ 241	−29 18 20.81	+14.275	+644
116	[94 Ceti]	5.2	F	3 8 38.340	+3.0607	+ 136	− 1 29 53.96	+13.569	− 61
115	48 H. Cephei	5.9	A	3 9 59.228	+7.5127	+ 183	+77 26 20.90	+13.500	− 44
118	[Horol. 38 G.]	6.1	N	3 10 29.823	+1.5151	− 5	−57 37 28.59	+13.504	− 6
119	[e Eridani]	4.2	G 5	3 16 41.605	+2.3958	+2787	−43 22 44.96	+13.839	+734
120	α Persei	1.9	F 5	3 18 31.866	+4.2708	+ 29	+49 34 26.28	+12.957	− 26

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ' "	"	
121	o Tauri	3.6	G 5	3 20 27.116	+3.2260	— 44	+ 8 44 40.64	+12.779	— 76
122	2 H. Camelop.	4.4	B 9	3 22 29.788	+4.8375	— 1	+59 39 33.77	+12.724	+ 6
123	[ξ Tauri]	3.6	B 8	3 22 46.604	+3.2487	+ 39	+ 9 27 3.68	+12.653	— 45
124	[σ Persei]	4.8	K	3 24 51.358	+4.2191	+ 9	+47 43 0.19	+12.580	+ 23
125	f Tauri	4.1	K	3 26 23.897	+3.3092	+ 13	+12 39 35.62	+12.446	— 5
126	[κ Reticuli]	4.8	F 5	3 27 57.397	+1.0377	+514	—63 13 22.32	+12.705	+361
127	ε Eridani	3.5	K	3 29 6.804	+2.8256	—658	— 9 43 54.35	+12.277	+ 12
128	[Horol. 45 G.]	5.8	K	3 30 9.601	+1.7837	+ 48	—50 39 10.80	+12.272	+ 80
130	[y Eridani]	4.5	K	3 34 11.218	+2.1517	— 16	—40 32 23.09	+11.886	— 24
129	[Gr. 716]	5.4	M b	3 35 6.675	+5.1824	— 21	+62 57 20.12	+11.868	+ 22
131	δ Persei	3.0	B 5	3 37 9.016	+4.2614	+ 33	+47 31 46.89	+11.666	— 35
133	[δ Fornacis]	4.9	B 5	3 39 1.555	+2.3850	— 5	—32 11 47.61	+11.575	+ 7
132	[ο Persei]	3.9	B 1	3 39 14.085	+3.7568	+ 8	+32 1 57.37	+11.536	— 17
135	[δ Eridani]	3.4	K	3 39 22.008	+2.8729	— 64	—10 2 12.43	+12.290	+747
134	ν Persei	3.9	F 5	3 39 41.095	+4.0680	— 6	+42 19 25.56	+11.515	— 5
136	[17 Tauri]	4.0	B 5	3 40 3.719	+3.5586	+ 17	+23 51 34.76	+11.450	— 44
137	[24 Eridani]	5.4	B 8	3 40 23.559	+3.0457	+ 1	— 1 25 4.11	+11.461	— 8
138	5 H. Camelop.	4.5	A	3 41 46.935	+6.2887	+ 42	+71 5 3.87	+11.329	— 40
139	η Tauri	3.0	B 5	3 42 39.968	+3.5624	+ 18	+23 51 20.26	+11.258	— 48
141	β Reticuli	3.8	K	3 43 10.722	+0.7437	+478	—65 3 42.23	+11.331	+ 62
140	τ^6 Eridani	4.1	F 8	3 43 21.721	+2.5798	—123	—23 29 17.54	+10.736	—519
142	[27 Tauri]	3.8	B 8 p	3 44 20.534	+3.5634	+ 14	+23 48 24.20	+11.140	— 45
143	g Eridani	4.1	K	3 46 25.362	+2.2448	— 40	—36 26 41.81	+10.981	— 52
146	γ Hydri	3.1	M a	3 48 28.677	—0.9583	+123	—74 29 15.39	+10.992	+109
144	ζ Persei	2.9	B 1	3 49 2.176	+3.7664	+ 11	+31 38 38.89	+10.830	— 11
145	9 H. Camelop.	5.5	K	3 50 13.077	+5.0964	— 3	+60 52 22.62	+10.738	— 16
147	ε Persei	3.0	B	3 52 24.778	+4.0195	+ 23	+39 46 37.15	+10.563	— 29
148	ξ Persei	4.0	Oe 5	3 53 42.294	+3.8876	+ 10	+35 33 33.00	+10.487	— 8
149	γ Eridani	3.0	K 5	3 54 14.956	+2.7982	+ 42	—13 44 17.51	+10.343	—112
150	λ Tauri	(3.5)	B 3	3 56 11.407	+3.3213	— 5	+12 15 44.62	+10.296	— 13
151	ν Tauri	3.9	A	3 58 50.738	+3.1897	+ 4	+ 5 45 55.48	+10.100	— 10
153	[Erid. 174 G.]	5.7	A 8	4 2 17.075	+2.4719	+148	—27 52 21.76	+ 9.957	+108
152	c Persei	4.0	B 3 p	4 2 46.493	+4.3476	+ 33	+47 29 50.87	+ 9.780	— 32
154	o^1 Eridani	4.1	F 5	4 7 54.633	+2.9276	+ 8	— 7 2 52.67	+ 9.499	+ 82
155	α Horologii	3.7	K	4 11 18.935	+1.9856	+ 20	—42 29 36.95	+ 8.935	—219
156	α Reticuli	3.2	G 5	4 13 22.628	+0.7661	+ 50	—62 40 34.74	+ 9.040	+ 47
157	[γ Doradus]	4.2	F 5	4 13 54.087	+1.5680	+ 88	—51 41 26.07	+ 9.124	+172
160	υ^4 Eridani	3.3	B 9	4 14 49.652	+2.2684	+ 37	—33 59 43.75	+ 8.867	— 12
158	[54 Persei]	5.3	G 5	4 15 8.815	+3.8908	— 20	+34 22 20.34	+ 8.848	— 6
159	[γ Tauri]	3.7	G	4 15 10.885	+3.4119	+ 82	+15 25 58.72	+ 8.823	— 29

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ' "	"	
161	[Erid. 212 G.]	5.4	A	4 17 7.028	+2.6182	+ 36	−20 49 54.73	+8.715	+ 15
162	δ Tauri	3.8	K	4 18 15.670	+3.4576	+ 78	+17 21 12.75	+8.578	− 31
163	[η Reticuli]	5.3	G 5	4 21 0.565	+0.6428	+126	−63 34 42.71	+8.551	+160
166	[δ Mensae]	5.8	K	4 23 24.954	−4.1308	+ 98	−80 24 17.20	+8.271	+ 72
164	ε Tauri	3.5	K	4 23 53.078	+3.5011	+ 80	+19 0 6.63	+8.127	− 35
165	[1 Camel. seq.]	6.3	B 1	4 25 36.468	+4.7427	+ 7	+53 44 10.26	+8.025	0
167	[δ Caeli]	5.2	B 3	4 28 21.164	+1.8357	− 6	−45 7 37.86	+7.787	− 17
168	α Tauri	1	K 5	4 31 16.242	+3.4405	+ 49	+16 20 50.96	+7.380	−189
171	α Doradus	3.2	A p	4 32 14.760	+1.2955	+ 71	−55 12 42.69	+7.492	+ 3
169	ν Eridani	3.8	B 2	4 32 16.239	+2.9968	+ 2	− 3 31 1.86	+7.483	− 4
170	[υ² Eridani]	3.5	K	4 32 24.021	+2.3311	− 46	−30 43 38.57	+7.471	− 6
172	53 Eridani	3.9	K	4 34 28.183	+2.7463	− 54	−14 27 41.77	+7.144	−164
174	τ Tauri	4.2	A	4 37 22.880	+3.5990	+ 5	+22 48 9.42	+7.052	− 19
173	Gr. 848	6.2	A	4 37 54.409	+8.0279	+107	+75 47 46.35	+6.894	−134
175	4 Camelop.	5.5	A	4 41 14.945	+4.9880	+ 61	+56 36 53.41	+6.607	−146
176	[μ Eridani]	3.8	B 5	4 41 27.085	+2.9992	+ 13	− 3 24 8.00	+6.725	− 12
177	[μ Mensae]	5.5	A	4 43 52.024	−0.6111	+ 17	−71 4 46.96	+6.566	+ 28
178	9 Camelop.	4.3	B	4 45 59.183	+5.9474	+ 5	+66 12 25.12	+6.372	+ 10
179	[π⁴ Orionis]	3.7	B 3	4 46 53.436	+3.1941	0	+ 5 28 3.01	+6.279	− 7
180	π⁵ Orionis	3.7	B 3	4 50 1.848	+3.1239	− 2	+ 2 18 32.24	+6.022	− 3
181	ι Aurigae	2.7	K 2	4 51 42.973	+3.9046	+ 10	+33 2 20.60	+5.864	− 20
183	ε Aurigae	(3.2)	F 5 p	4 56 9.182	+4.3013	+ 6	+43 42 17.02	+5.499	− 14
182	10 Camelop.	4.1	G	4 56 12.357	+5.3276	− 1	+60 19 31.93	+5.497	− 12
184	ι Tauri	4.8	A 5	4 58 15.155	+3.5848	+ 53	+21 28 31.41	+5.293	− 43
185	η Aurigae	3.3	B 3	5 0 49.902	+4.2042	+ 33	+41 7 34.40	+5.047	− 71
186	ε Leporis	3.2	K 5	5 2 1.905	+2.5393	+ 20	−22 28 44.47	+4.948	− 68
187	[η² Pictoris]	5.1	K 5	5 2 51.915	+1.5499	+ 35	−49 41 12.95	+4.952	+ 6
188	β Eridani	2.7	A 2	5 3 52.019	+2.9490	− 59	− 5 11 24.83	+4.782	− 79
189	[ζ Doradus]	4.7	F 8	5 4 7.115	+1.0235	− 71	−57 34 59.06	+4.942	+103
190	[λ Eridani]	4.2	B 2	5 5 16.167	+2.8707	+ 3	− 8 51 25.39	+4.738	− 4
192	μ Aurigae	5.1	A 3	5 7 52.980	+4.1029	− 13	+38 23 23.30	+4.441	− 79
191	19 H. Camelop.	5.1	F 8	5 9 10.673	+9.8373	−314	+79 8 28.55	+4.569	+160
194	β Orionis	1	B 8 p	5 10 38.655	+2.8825	+ 2	− 8 17 39.48	+4.283	0
193	α Aurigae	1	G	5 10 42.153	+4.4292	+ 85	+45 55 1.26	+3.851	−428
195	[τ Orionis]	3.7	B 5	5 13 40.352	+2.9124	− 12	− 6 55 51.65	+4.017	− 7
196	ϑ Doradus	4.8	K	5 13 48.943	−0.0523	+ 14	−67 16 35.16	+4.051	+ 39
197	[ο Columbae]	4.9	K	5 14 33.728	+2.1625	+ 63	−34 58 25.00	+3.620	−328
198	[Columb. 12 G.]	6.0	A	5 16 9.971	+2.3919	+ 8	−27 27 5.04	+3.799	− 11
199	[ζ Pictoris]	5.6	F 5	5 17 22.802	+1.4694	+ 9	−50 41 33.15	+3.933	+227
200	[η Orion. m.]	3.3	B 1	5 20 24.241	+3.0164	+ 5	− 2 28 14.47	+3.447	+ 1

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ' "	"	
201	γ Orionis	1.7	B 2	5 20 47.148	+3.2173	− 3	+ 6 16 38.09	+3.393	− 20
202	β Tauri	1.8	B 8	5 21 10.216	+3.7916	+ 25	+28 32 24.90	+3.203	−177
203	17 Camelop.	5.9	M a	5 22 30.889	+5.6602	− 3	+63 0 4.88	+3.263	− 1
204	[β Leporis]	2.9	G	5 24 46.483	+2.5709	+ 4	−20 49 23.77	+2.976	− 93
206	δ Orionis	2.2	B	5 27 52.052	+3.0644	0	− 0 21 29.27	+2.799	− 2
205	Gr. 966	6.6	F	5 28 53.051	+8.0107	− 8	+74 59 33.86	+2.733	+ 20
207	α Leporis	2.6	F	5 29 9.428	+2.6457	+ 2	−17 52 46.01	+2.692	+ 2
208	[φ^1 Orionis]	4.6	B	5 30 22.375	+3.2928	− 1	+ 9 26 8.51	+2.574	− 10
209	ι Orionis	2.8	Oe 5	5 31 28.225	+2.9347	+ 4	− 5 57 43.88	+2.485	− 4
210	ε Orionis	1.6	B	5 32 6.156	+3.0438	+ 1	− 1 15 9.74	+2.431	− 3
211	ζ Tauri	3.0	B 3	5 32 48.180	+3.5851	+ 6	+21 5 39.32	+2.348	− 26
212	β Doradus	3.7	F 5	5 32 55.210	+0.5175	− 13	−62 32 33.47	+2.361	− 2
213	[σ Orionis]	3.8	B	5 34 40.745	+3.0113	0	− 2 38 45.16	+2.209	− 1
214	[γ Mensae]	5.3	K	5 35 4.963	−2.3903	+279	−76 23 57.79	+2.474	+298
215	α Columbae	2.4	B 5 p	5 36 42.893	+2.1719	− 1	−34 7 0.06	+1.996	− 37
216	ο Aurigae	5.7	A	5 39 37.445	+4.6468	− 6	+49 47 32.25	+1.771	− 9
217	[γ Leporis]	3.8	F 8	5 41 5.206	+2.5017	−201	−22 28 26.60	+1.277	−376
218	[130 Tauri]	5.8	A	5 42 42.808	+3.4983	+ 4	+17 41 59.65	+1.505	− 6
219	ζ Leporis	3.5	A 2	5 43 17.084	+2.7181	− 12	−14 51 4.54	+1.459	− 2
220	ϰ Orionis	2.1	B	5 43 54.869	+2.8453	+ 4	− 9 41 50.97	+1.403	− 3
221	[ν Aurigae]	3.9	K	5 45 52.498	+4.1573	− 4	+39 7 34.06	+1.246	+ 11
222	[δ Leporis]	3.8	K	5 47 50.257	+2.5800	+165	−20 53 6.66	+0.411	−653
223	[β Columbae]	2.9	K	5 48 6.186	+2.1136	+ 33	−35 47 52.94	+1.444	+404
224	α Orionis	1	M a	5 50 47.167	+3.2480	+ 20	+ 7 23 35.03	+0.819	+ 13
226	[η Leporis]	3.6	F 5	5 52 42.923	+2.7325	− 27	−14 10 53.77	+0.777	+140
225	δ Aurigae	3.8	K	5 52 51.445	+4.9401	+100	+54 16 48.34	+0.503	−122
227	β Aurigae	1.9	A p	5 53 35.235	+4.4016	− 42	+44 56 26.10	+0.553	− 8
228	ϑ Aurigae	2.7	A p	5 54 11.869	+4.0919	+ 49	+37 12 29.49	+0.420	− 87
229	η Columbae	3.9	K	5 56 40.036	+1.8367	+ 22	−42 49 9.19	+0.258	− 34
230	[66 Orionis]	5.9	K	6 0 41.546	+3.1694	− 6	+ 4 9 50.98	−0.075	− 15
231	[Puppis 1 G.]	5.8	F 5 p	6 2 8.521	+1.7264	− 83	−45 2 8.67	+0.045	+232
232	ν Orionis	4.4	B 2	6 2 56.841	+3.4263	+ 11	+14 46 44.89	−0.289	− 31
233	[36 Camelop.]	5.6	K	6 4 42.115	+6.0362	− 5	+65 44 11.18	−0.440	− 29
235	[δ Pictoris]	5.0	B 1	6 8 43.187	+1.1669	− 22	−54 57 0.90	−0.770	− 7
234	22 H. Camelop.	4.6	A	6 9 55.418	+6.6170	+ 16	+69 21 1.93	−0.970	−102
236	η Geminor.	3.3	M a	6 9 59.310	+3.6224	− 42	+22 31 53.33	−0.886	− 13
237	[2 Lyncis]	4.4	A	6 12 28.672	+5.2965	− 7	+59 2 31.18	−1.061	+ 29
239	[α Mensae]	5.1	K	6 12 39.019	−1.7897	+237	−74 43 33.22	−1.332	−226
238	[ϰ Columbae]	4.4	K	6 13 40.200	+2.1341	− 6	−35 6 46.55	−1.121	+ 74
240	ζ Canis maj.	2.9	B 3	6 17 12.180	+2.3027	+ 2	−30 1 35.73	−1.499	+ 4

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ' "	"	
241	μ Geminor.	2.9	Ma	6 18 3.647	+ 3.6308	+ 48	+22 33 22.92	−1.689	− 111
242	ψ^1 Aurigae	5.1	K	6 18 39.696	+ 4.6238	+ 9	+49 19 50.70	−1.634	− 3
243	β Canis maj.	2.0	B 1	6 19 7.937	+ 2.6418	− 4	−17 54 53.37	−1.669	+ 2
244	8 Monocer.	4.5	A 5	6 19 28.570	+ 3.1800	− 7	+ 4 38 5.93	−1.697	+ 4
245	α Argus	1	F	6 22 9.157	+ 1.3314	+ 16	−52 39 3.56	−1.923	+ 11
246	10 Monocer.	5.0	B 3	6 23 57.586	+ 2.9629	− 2	− 4 42 40.09	−2.087	+ 5
247	8 Lyncis	6.3	F	6 30 17.488	+ 5.4896	−284	+61 33 14.69	−2.919	− 277
249	ξ^2 Canis maj.	4.6	A	6 31 39.671	+ 2.5141	+ 5	−22 53 59.36	−2.747	+ 13
248	23 H. Camelop.	5.6	F 8	6 32 26.103	+10.2924	−281	+79 39 19.13	−3.449	− 622
251	γ Geminor.	2.0	A	6 33 1.995	+ 3.4671	+ 34	+16 28 10.24	−2.925	− 45
250	51 Aurigae	6.1	K	6 33 2.854	+ 4.1596	− 18	+39 27 48.71	−2.995	− 114
252	ν Argus	3.1	B 8	6 35 16.944	+ 1.8355	− 4	−43 7 27.98	−3.094	− 20
253	*S* Monocer.	(4.4)	Oe 5	6 36 31.074	+ 3.3053	+ 6	+ 9 58 18.16	−3.186	− 5
254	ε Geminor.	3.1	G 5	6 38 56.997	+ 3.6932	+ 3	+25 12 45.03	−3.405	− 15
256	ξ Geminor.	3.4	F 5	6 40 44.636	+ 3.3685	− 75	+12 59 2.25	−3.744	− 199
255	[ψ^5 Aurigae]	5.5	F 5	6 40 54.203	+ 4.3283	+ 6	+43 39 33.57	−3.405	+ 154
257	α Canis maj.[1])	1	A	6 41 34.823	+ 2.6438	−370	−16 36 15.03	−4.829	−1212
258	18 Monocer.	4.7	K	6 43 38.289	+ 3.1298	− 2	+ 2 30 6.21	−3.814	− 20
259	[43 Camelop.]	5.1	B 5	6 44 58.754	+ 6.4861	+ 16	+68 59 3.97	−3.906	+ 3
264	[ζ Mensae]	5.7	A 2	6 46 48.674	− 4.9477	− 36	−80 43 45.91	−3.981	+ 85
262	α Pictoris	3.2	A 5	6 47 21.675	+ 0.6179	−100	−61 51 14.92	−3.857	+ 256
261	ϑ Geminor.	3.4	A 2	6 47 27.136	+ 3.9576	+ 7	+34 3 36.40	−4.176	− 55
263	[τ Argus]	2.9	K	6 47 55.557	+ 1.4888	+ 29	−50 31 4.11	−4.257	− 96
260	[24 H. Camel.]	4.6	K 5	6 48 16.443	+ 8.7925	+217	+77 4 59.82	−4.204	− 13
265	15 Lyncis	4.6	K	6 50 16.055	+ 5.2037	0	+58 31 50.06	−4.491	− 130
266	ϑ Canis maj.	4.1	K 5	6 50 25.600	+ 2.7876	− 94	−11 56 10.65	−4.389	− 13
267	[ι Volantis]	5.4	B 8	6 52 22.862	− 0.6786	− 4	−70 51 45.73	−4.530	+ 12
268	ε Canis maj.	1.5	B 1	6 55 26.506	+ 2.3576	0	−28 51 39.93	−4.801	+ 1
269	ζ Geminor.	(3.8)	G	6 59 18.370	+ 3.5606	0	+20 41 24.93	−5.132	− 3
270	[o^2 Canis maj.]	3.1	B 5 p	6 59 38.524	+ 2.5053	− 2	−23 42 51.01	−5.158	0
271	γ Canis maj.	4.0	B 5	7 0 5.659	+ 2.7152	+ 8	−15 30 45.99	−5.208	− 12
272	[Carinae 27 G.]	5.5	A	7 2 47.666	+ 1.1172	− 24	−56 37 34.91	−5.431	− 7
273	δ Canis maj.	1.9	F 8 p	7 5 5.833	+ 2.4390	− 8	−26 15 49.81	−5.614	+ 3
274	63 Aurigae	5.0	K	7 6 5.214	+ 4.1316	+ 45	+39 27 14.30	−5.700	0
275	[*J* Puppis]	4.5	F	7 10 15.003	+ 1.7095	−148	−46 37 24.67	−5.958	+ 90
276	[64 Aurigae]	6.0	A	7 12 24.499	+ 4.1777	− 3	+41 1 42.18	−6.225	+ 3
277	λ Geminor.	3.6	A 2	7 13 26.355	+ 3.4498	− 31	+16 41 15.08	−6.358	− 44
278	π Argus	2.5	K 5	7 14 16.876	+ 2.1184	− 14	−36 57 4.98	−6.381	+ 3
279	δ Geminor.	3.3	F	7 15 17.243	+ 3.5861	− 11	+22 7 57.53	−6.478	− 10
280	19 Lync. seq.	5.5	B 8	7 16 15.860	+ 4.9059	− 1	+55 26 7.76	−6.582	− 34

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ′ ″	″	
281	δ Volantis	4.0	F 5	7 16 52.592	−0.0204	+ 4	−67 48 32.52	− 6.611	− 12
282	ι Geminor.	3.8	K	7 20 41.904	+3.7302	− 83	+27 57 36.84	− 6.999	− 85
283	[η Can. maj.]	2.4	B 5 p	7 20 53.456	+2.3730	− 5	−29 8 39.27	− 6.916	+ 13
284	Gr. 1308	5.8	G 8	7 22 27.907	+6.2689	− 7	+68 37 58.70	− 7.102	− 44
285	β Canis min.	2.9	B 8	7 22 45.553	+3.2554	− 31	+ 8 27 12.76	− 7.123	− 41
286	ρ Geminor.	4.4	F	7 23 54.245	+3.8630	+122	+31 56 48.60	− 6.993	+ 183
287	α Gemin.[2])	1.8.2.8	A	7 29 25.951	+3.8341	−129	+32 4 3.65	− 7.707	− 81
288	[Pupp. 108 G.]	4.7	F 8	7 30 35.118	+2.5675	− 39	−22 7 14.11	− 7.700	+ 18
289	25 Monocer.	5.3	F 5	7 33 15.088	+2.9837	− 47	− 3 55 45.20	− 7.913	+ 20
290	[f Puppis]	4.7	B 8	7 34 22.236	+2.2193	− 27	−34 47 8.24	− 8.007	+ 16
291	α Can. min.[3])	0.5	F 5	7 35 3.765	+3.1421	−469	+ 5 26 0.91	− 9.106	−1028
292	24 Lyncis	5.0	A 5	7 36 9.727	+5.0912	− 47	+58 54 4.92	− 8.220	− 53
293	[26 Monocer.]	4.0	K	7 37 22.626	+2.8663	− 57	− 9 21 40.79	− 8.285	− 21
294	κ Geminor.	3.4	G 5	7 39 33.610	+3.6260	− 15	+24 35 35.99	− 8.491	− 54
295	β Geminor.	1.1	K	7 40 21.722	+3.6755	−468	+28 13 22.55	− 8.553	− 53
296	π Geminor.	5.5	K	7 42 17.250	+3.8740	− 1	+33 36 56.25	− 8.683	− 31
297	ζ Volantis	3.9	K	7 42 49.378	−0.7250	+ 8	−72 24 42.32	− 8.687	+ 8
298	[Pupp. 205 G.]	5.7	F 8	7 48 1.279	+2.7787	− 41	−13 40 56.29	− 9.445	− 343
299	[26 Lyncis]	5.7	K	7 48 49.195	+4.3783	− 40	+47 46 32.93	− 9.171	− 7
301	[α Puppis]	3.7	G 5	7 49 25.920	+2.0620	− 18	−40 21 58.46	− 9.211	+ 1
300	Gr. 1374	5.5	K	7 50 31.673	+7.2359	− 30	+74 8 10.95	− 9.329	− 32
303	χ Argus	3.5	B 3	7 54 43.209	+1.5269	− 32	−52 45 52.13	− 9.596	+ 24
302	[53 Camelop.]	6.3	A	7 54 48.064	+5.1455	− 30	+60 32 50.30	− 9.648	− 21
304	[27 Monocer.]	5.2	K	7 55 41.442	+2.9993	− 27	− 3 27 28.05	− 9.685	+ 9
305	χ Geminor.	5.1	K	7 58 32.793	+3.6894	− 15	+28 1 20.94	− 9.958	− 46
306	ζ Argus	2.2	O d	8 0 44.180	+2.1077	− 34	−39 46 27.65	−10.068	+ 10
307	27 Lyncis	4.6	A 2	8 2 22.318	+4.5255	− 59	+51 44 29.13	−10.206	− 4
308	ι Navis	2.8	F 5	8 4 5.642	+2.5547	− 64	−24 4 12.30	−10.285	+ 47
309	γ Argus	2.1	O a p	8 7 2.143	+1.8488	− 12	−47 5 50.50	−10.555	− 4
310	Br. 1147	5.8	G	8 9 24.194	+7.6085	+ 58	+76 0 22.49	−10.709	+ 17
311	20 Navis	5.3	K	8 9 36.607	+2.7581	− 8	−15 32 36.34	−10.747	− 6
312	β Cancri	3.5	K 2	8 12 7.447	+3.2559	− 30	+ 9 26 9.84	−10.979	− 52
313	[q Puppis]	4.4	A 5	8 15 31.310	+2.2441	−104	−36 24 27.61	−11.086	+ 89
314	31 Lyncis	4.4	K	8 17 17.777	+4.1174	− 8	+43 26 56.41	−11.411	− 108
315	ε Argus	1.7	K p	8 20 51.219	+1.2345	− 32	−59 14 54.19	−11.543	+ 15
316	Br. 1197	3.6	A	8 21 36.846	+2.9993	− 41	− 3 38 28.83	−11.634	− 21
318	ϑ Chamael.	4.2	K	8 23 5.578	−1.7545	−457	−77 13 25.07	−11.688	+ 30
317	ο Ursae maj.	3.3	G	8 23 32.862	+5.0077	−174	+60 59 24.97	−11.861	− 111
319	[β Volantis]	3.7	K	8 24 51.608	+0.6608	− 54	−65 51 59.16	−12.020	− 177
320	Gr. 1450	6.3	K p	8 27 39.349	+3.9081	− 83	+38 17 42.81	−12.210	− 170

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ′ ″	″	
321	η Cancri	5.6	K	8 28 1.654	+3.4738	− 26	+20 43 2.03	−12.116	− 50
322	[Gr. 1446]	6.4	G 5	8 30 44.129	+6.7367	− 36	+73 54 52.32	−12.358	−104
323	[Gr. 1460]	6.3	F 5	8 33 18.027	+4.4600	− 38	+52 59 47.51	−12.466	− 35
324	[e Velorum]	4.2	A 5	8 34 47.677	+2.1079	− 22	−42 42 18.82	−12.540	− 7
325	[6 Hydrae]	5.4	K	8 36 11.202	+2.8421	− 64	−12 11 17.87	−12.630	− 3
326	δ Cancri	3.9	K	8 40 5.076	+3.4133	− 9	+18 27 10.24	−13.127	−236
327	α Pyxidis	3.7	B 2	8 40 20.206	+2.4099	− 15	−32 53 37.44	−12.896	+ 12
328	ι Cancri	4.1	G 5	8 41 47.975	+3.6365	− 12	+29 3 25.51	−13.052	− 47
330	δ Argus	2.0	A	8 42 28.030	+1.6574	+ 22	−54 24 41.01	−13.143	− 93
329	[ε Hydrae]	3.3	F 8	8 42 29.293	+3.1796	− 126	+ 6 43 0.51	−13.101	− 50
331	[η Chamael.]	5.9	K	8 44 6.461	−1.9738	− 151	−78 40 10.93	−13.125	+ 34
332	[γ Pyxidis]	4.2	K 2	8 47 5.635	+2.5459	− 100	−27 24 31.39	−13.261	+ 93
333	[σ² Cancri med.]	5.6	G 5	8 49 18.404	+3.6668	+ 31	+30 53 13.22	−13.524	− 26
334	ζ Hydrae	3.1	K	8 51 6.819	+3.1737	− 64	+ 6 15 16.55	−13.602	+ 12
336	c Carinae	4.0	B 8	8 53 12.800	+1.3627	− 26	−60 20 4.59	−13.696	+ 52
335	ι Ursae maj.	2.9	A 5	8 53 40.192	+4.1208	− 437	+48 21 38.10	−14.025	−247
337	α Cancri	4.1	A 5	8 54 3.562	+3.2843	+ 26	+12 10 19.44	−13.837	− 35
338	[ρ Ursae maj.]	4.9	M a	8 55 15.760	+5.4495	− 34	+67 56 47.50	−13.863	+ 15
339	10 Ursae maj.	3.9	F 5	8 55 23.316	+3.9054	− 383	+42 6 15.56	−14.151	−264
340	[Gr. 1501]	5.9	A 2	8 58 4.920	+4.4128	− 8	+54 36 14.95	−14.053	+ 3
341	κ Ursae maj.	3.3	A	8 58 6.194	+4.1089	− 27	+47 28 40.01	−14.121	− 65
343	α Volantis	4.1	A 5	9 1 10.286	+0.9532	− 8	−66 4 21.40	−14.360	−114
342	[c Velorum]	3.9	K	9 1 21.524	+2.0663	− 70	−46 46 29.47	−14.286	− 28
344	σ² Ursae maj.	4.9	F 8	9 3 17.194	+5.3155	− 16	+67 27 52.71	−14.443	− 67
345	λ Argus	2.1	K 5	9 5 0.888	+2.2045	− 33	−43 6 18.01	−14.472	+ 9
346	[36 Lyncis]	5.3	B 8	9 8 30.779	+3.9353	− 18	+43 33 8.99	−14.733	− 42
347	ϑ Hydrae	3.9	A	9 10 9.090	+3.1234	+ 89	+ 2 39 24.09	−15.101	−313
348	β Argus	1.7	A	9 12 19.023	+0.6692	− 303	−69 23 0.24	−14.818	+ 97
349	[38 Lyncis]	3.9	A	9 13 48.573	+3.7423	− 18	+37 8 46.21	−15.132	−129
350	83 Cancri	6.7	G	9 14 27.805	+3.3526	− 80	+18 2 58.06	−15.175	−135
351	[ι Argus]	2.2	F	9 14 55.281	+1.6060	− 35	−58 56 5.97	−15.065	+ 2
352	40 Lyncis	3.2	K 5	9 16 7.526	+3.6624	− 178	+34 44 9.01	−15.124	+ 12
353	κ Argus	2.5	B 3	9 19 36.238	+1.8564	− 22	−54 39 51.51	−15.332	+ 2
354	α Hydrae	2.0	K 2	9 23 36.456	+2.9489	− 7	− 8 18 24.71	−15.525	+ 32
355	h Ursae maj.	3.5	F	9 25 9.616	+4.7596	+ 168	+63 25 1.23	−15.614	+ 28
356	[ε Antliae]	4.7	K 2	9 25 54.044	+2.4744	− 25	−35 35 47.80	−15.696	− 14
357	d Ursae maj.	4.5	G	9 27 20.811	+5.3527	− 120	+70 11 14.87	−15.686	+ 75
358	ϑ Ursae maj.	3.1	F 8	9 27 26.961	+4.0280	−1027	+52 2 50.21	−16.313	−546
359	ψ Argus	3.6	F 5	9 27 30.484	+2.3605	− 172	−40 6 41.49	−15.695	+ 74
361	[N Velorum]	3.0	K 5	9 28 45.642	+1.8230	− 36	−56 40 35.57	−15.836	+ 1

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
				h m s	s		° ′ ″	″	
360	10 Leon. min.	4.6	G 5	9 29 16.015	+3.6841	+ 13	+36 45 28.61	−15.890	− 26
362	[H. Carinae]	5.8	K	9 31 0.421	+0.4662	− 61	−72 43 17.67	−15.973	− 17
363	[Gr. 1564]	5.9	K	9 35 20.315	+5.1808	−131	+69 36 25.71	−16.256	− 74
364	[κ Hydrae]	5.1	B 3	9 36 25.386	+2.8761	− 18	−13 57 50.88	−16.250	− 11
365	[o Leonis]	3.8	F 5 p	9 36 49.780	+3.2048	− 94	+10 15 41.29	−16.297	− 37
366	ϑ Antliae	5.0	F 2	9 40 35.399	+2.6729	− 40	−27 23 53.15	−16.415	+ 35
367	ε Leonis	3.0	G p	9 41 15.423	+3.4106	− 31	+24 8 52.22	−16.500	− 17
369	υ Argus	3.0	F	9 45 4.674	+1.5010	− 21	−64 41 45.37	−16.672	− 1
368	υ Ursae maj.	3.8	F	9 45 14.616	+4.2892	−379	+59 25 13.91	−16.833	−154
370	6 Sextantis	6.2	A	9 47 9.171	+3.0240	+ 8	− 3 51 47.55	−16.801	− 30
371	[μ Leonis]	4.0	K	9 48 9.634	+3.4172	−162	+26 23 20.73	−16.876	− 56
373	[Hydrae 183 G.]	5.5	M a	9 51 2.985	+2.8300	− 24	−18 37 31.22	−17.021	− 66
372	Gr. 1586	6.3	K	9 51 10.466	+5.4236	−179	+73 15 55.99	−17.006	− 45
374	[19 Leon. min.]	5.2	F	9 52 43.806	+3.6847	−100	+41 26 31.16	−17.060	− 27
375	[φ Argus]	3.7	B 5	9 54 1.011	+2.1032	− 21	−54 10 54.60	−17.095	− 2
377	[η Antliae]	5.3	F 8	9 55 23.632	+2.5712	− 83	−35 30 10.15	−17.179	− 24
376	[12 Sextantis]	6.7	F	9 55 31.057	+3.1135	− 47	+ 3 46 21.35	−17.133	+ 27
378	π Leonis	4.9	M a	9 55 56.086	+3.1727	− 21	+ 8 26 0.21	−17.204	− 25
379	η Leonis	3.4	A p	10 2 55.144	+3.2742	− 2	+17 9 29.39	−17.492	− 6
380	α Leonis	1.3	B 8	10 4 3.619	+3.1980	−167	+12 21 48.81	−17.535	− 1
381	λ Hydrae	3.7	K	10 6 38.361	+2.9250	−134	−11 57 11.57	−17.730	− 87
382	q Velorum	3.9	A 2	10 11 19.935	+2.5133	−154	−41 43 12.64	−17.789	+ 45
385	[ω Argus]	3.4	B 8	10 11 48.966	+1.4328	− 28	−69 38 7.55	−17.854	0
384	ζ Leonis	3.4	F	10 12 11.321	+3.3416	+ 15	+23 49 17.40	−17.875	− 7
383	λ Ursae maj.	3.4	A	10 12 13.114	+3.6290	−148	+43 19 9.64	−17.918	− 49
386	μ Ursae maj.	3.0	K 5	10 17 30.606	+3.5843	− 70	+41 54 26.38	−18.050	+ 24
387	30 H. Urs. maj.	5.0	A	10 18 18.509	+4.3573	− 25	+65 58 35.97	−18.123	− 18
388	[25 Sextantis]	6.2	A	10 19 20.848	+3.0323	− 40	− 3 39 51.51	−18.146	− 2
389	μ Hydrae	3.9	K 5	10 22 10.352	+2.9011	− 85	−16 25 20.67	−18.328	− 82
391	J Carinae	4.1	F 5	10 22 47.384	+1.1951	− 67	−73 37 8.51	−18.286	− 17
390	31 Leon. min.	4.2	K	10 23 12.309	+3.4777	− 96	+37 7 21.92	−18.390	−106
392	Lac. α Antliae	4.2	K 5	10 23 26.605	+2.7426	− 62	−30 39 17.94	−18.283	+ 10
393	s Carinae	4.1	F	10 24 54.110	+2.1963	− 32	−58 19 31.91	−18.358	− 14
394	36 Ursae maj.	4.8	F	10 25 27.240	+3.8573	−216	+56 23 47.14	−18.397	− 33
395	9 H. Dracon.	4.9	K	10 28 14.998	+5.1725	− 96	+76 7 51.27	−18.464	− 4
396	[ρ Leonis]	3.8	B p	10 28 32.863	+3.1611	− 6	+ 9 43 25.79	−18.476	− 5
397	[p Carinae]	3.5	B 5 p	10 29 8.512	+2.1296	− 18	−61 16 5.97	−18.485	+ 5
398	[37 Ursae maj.]	5.2	F	10 29 57.348	+3.8841	+ 83	+57 30 1.10	−18.482	+ 36
399	[44 Hydrae]	5.6	K	10 30 9.665	+2.8523	− 2	−23 19 38.65	−18.504	+ 21
400	[p Velorum]	4.0	F 2	10 33 53.539	+2.5135	−183	−47 48 16.85	−18.681	− 34

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ' "	"	
401	[γ Chamael.]	4.2	M a	10 34 31.407	+0.7328	−116	−78 11 14.70	−18.637	+ 30
402	[x Velorum]	4.4	G	10 36 4.556	+2.3772	− 75	−55 10 52.55	−18.737	− 21
404	33 Sextantis	6.6	K	10 37 16.981	+3.0525	− 94	− 1 18 55.60	−18.879	−125
403	[35 H. Urs. maj.]	5.1	K	10 37 17.330	+4.3330	− 19	+69 30 1.15	−18.772	− 18
405	[41 Leon. min.]	5.2	A 2	10 39 0.917	+3.2668	− 81	+23 36 46.45	−18.794	+ 13
406	ϑ Argus	2.8	B	10 40 3.831	+2.1349	− 26	−63 58 11.19	−18.834	+ 4
407	42 Leon. min.	5.3	B 9	10 41 21.926	+3.3425	− 15	+31 6 33.60	−18.914	− 37
408	μ Argus	2.7	G 5	10 43 16.843	+2.5727	+ 49	−48 59 31.19	−18.997	− 65
409	l Leonis	5.4	A	10 45 0.077	+3.1557	− 3	+10 58 26.81	−19.012	− 30
411	[δ² Chamael.]	4.7	B 3	10 45 2.506	+0.5975	−119	−80 6 46.14	−18.973	+ 9
410	[ν Hydrae]	3.2	K	10 45 37.641	+2.9590	+ 66	−15 46 10.22	−18.805	+195
412	[46 Leon. min.]	3.9	K	10 48 47.208	+3.3627	+ 76	+34 39 6.82	−19.367	−282
414	[ι Antliae]	4.9	K	10 52 56.404	+2.7915	+ 62	−36 42 7.54	−19.330	−137
413	[Br. 1508]	6.4	G 2	10 53 30.997	+4.8773	−259	+78 12 16.37	−19.234	− 26
415	i Velorum	4.5	A 2	10 56 26.078	+2.7476	+ 20	−41 47 28.38	−19.283	− 4
416	β Ursae maj.	2.3	A	10 56 57.842	+3.6378	+101	+56 49 0.73	−19.266	+ 26
417	α Ursae maj.	1.8	K	10 58 44.515	+3.7244	−174	+62 11 18.78	−19.405	− 72
418	χ Leonis	4.8	F	11 0 50.402	+3.0962	−231	+ 7 46 27.09	−19.427	− 46
419	[χ Hydrae]	4.8	F 5	11 1 25.582	+2.8862	−154	−26 51 22.28	−19.401	− 7
420	ψ Ursae maj.	3.0	K	11 5 6.968	+3.3832	− 57	+44 56 17.54	−19.509	− 36
421	β Crateris	4.3	A 2	11 7 40.331	+2.9481	0	−22 23 0.02	−19.623	− 98
422	δ Leonis	2.4	A 2	11 9 48.192	+3.1946	+106	+20 58 3.72	−19.703	−136
423	ϑ Leonis	3.3	A	11 9 59.485	+3.1507	− 43	+15 52 21.08	−19.652	− 81
424	[Gr. 1757]	6.1	K	11 12 8.380	+3.3922	− 97	+49 55 6.49	−19.632	− 22
425	ν Ursae maj.	3.4	K	11 14 6.488	+3.2473	− 16	+33 32 11.20	−19.623	+ 22
426	δ Crateris	3.6	K	11 15 17.372	+2.9976	− 88	−14 20 24.12	−19.465	+200
427	σ Leonis	4.1	A	11 16 57.638	+3.0948	− 62	+ 6 28 24.43	−19.705	− 12
428	π Centauri	4.1	B 5	11 17 18.453	+2.7273	− 41	−54 2 49.08	−19.712	− 13
429	Gr. 1771	6.2	A	11 18 3.321	+3.5879	− 10	+64 46 26.43	−19.676	+ 35
430	[ι Leonis]	4.0	F 5	11 19 42.168	+3.1287	+106	+10 58 31.85	−19.820	− 84
431	[γ Crateris]	4.0	A 2	11 20 50.010	+2.9950	− 72	−17 14 20.01	−19.747	+ 7
432	[58 Ursae maj.]	6.1	F	11 26 8.488	+3.2558	− 44	+43 37 4.68	−19.755	+ 72
433	λ Draconis	3.6	M a	11 26 36.758	+3.5914	− 80	+69 46 41.73	−19.854	− 21
434	ξ Hydrae	3.6	G 5	11 29 0.866	+2.9460	−167	−31 24 33.54	−19.905	− 43
435	[C² Centauri]	5.5	A 5	11 31 59.645	+2.8981	+ 13	−47 11 32.31	−19.943	− 47
436	λ Centauri	3.3	B 9	11 32 2.244	+2.7536	− 58	−62 34 17.57	−19.913	− 17
437	υ Leonis	4.4	K	11 32 48.084	+3.0717	+ 1	− 0 22 35.34	−19.868	+ 36
438	[π Chamael.]	6.1	F	11 33 54.768	+2.4601	−278	−75 26 52.84	−19.920	− 5
439	[ο Hydrae]	4.8	B 8	11 36 11.199	+2.9751	− 30	−34 17 44.28	−19.936	+ 1
440	3 Draconis	5.4	M a	11 37 58.089	+3.3699	− 78	+67 11 36.06	−19.913	+ 40

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew.in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew.in 0".001
442	[λ Muscae]	3.7	A 5	11h 41m 46s.512	+2s.8159	−152	−66° 16′ 46″.85	−19″.962	+ 20
441	χ Ursae maj.	3.8	K	11 41 46.766	+3.1781	−133	+48 13 42.78	−19.963	+ 20
443	[Centauri65G.]	4.2	G	11 42 35.293	+2.8893	− 25	−60 43 41.08	−20.022	− 35
444	β Leonis	2.1	A 2	11 44 55.769	+3.0621	−341	+15 1 29.66	−20.120	−118
445	β Virginis	3.5	F 8	11 46 28.561	+3.1252	+494	+ 2 13 16.31	−20.287	−276
446	[*B* Centauri]	4.8	K p	11 47 5.289	+2.9871	−111	−44 43 22.61	−20.060	− 46
447	γ Ursae maj.	2.3	A	11 49 34.638	+3.1675	+108	+54 8 42.29	−20.022	+ 2
448	[ε Chamael.]	5.0	B 9	11 55 34.941	+2.9377	−161	−77 46 14.75	−20.050	− 9
449	[Centauri88G.]	5.5	F	11 59 27.456	+3.0965	+267	−41 58 49.89	−20.168	−123
450	ο Virginis	4.1	G 5	12 1 5.020	+3.0569	−147	+ 9 10 57.97	−20.007	+ 38
451	[Gr. 1852]	6.0	K	12 1 9.210	+3.0865	+438	+77 21 31.22	−20.142	− 96
452	δ Centauri	2.7	B 3 p	12 4 9.210	+3.0974	− 44	−50 16 16.68	−20.060	− 18
453	ε Corvi	3.0	K	12 5 57.357	+3.0817	− 51	−22 10 9.47	−20.028	+ 11
454	4 H.Draconis	5.0	A 5	12 8 25.296	+2.8427	+ 23	+78 3 58.70	−20.009	+ 23
455	[δ Crucis]	3.0	B 3	12 10 50.106	+3.1699	− 50	−58 17 54.57	−20.050	− 27
456	δ Ursae maj.	3.4	A 2	12 11 25.476	+2.9818	+136	+57 28 57.19	−20.018	+ 3
457	[γ Corvi]	2.4	B 8	12 11 38.282	+3.0823	−112	−17 5 32.18	−20.003	+ 17
458	[2 Can. ven.]	5.9	K 5 p	12 12 4.296	+3.0139	+ 26	+41 6 39.27	−20.063	− 45
459	β Chamael.	4.4	B 5	12 13 33.926	+3.4600	−142	−78 51 45.10	−19.998	+ 12
460	η Virginis	3.7	A	12 15 45.675	+3.0688	− 42	− 0 13 0.35	−20.021	− 23
461	[6 Can. ven.]	5.3	K	12 21 51.725	+2.9612	− 67	+39 28 4.40	−19.991	− 36
462	α Crucis md.	1.0	B 1	12 22 5.193	+3.3169	− 44	−62 39 2.48	−19.984	− 31
463	[Hydr. 323 G.]	5.7	A	12 22 35.277	+3.1547	− 14	−32 22 52.67	−19.997	− 49
464	[σ Centauri]	4.1	B 3	12 23 39.131	+3.2319	− 36	−49 46 55.92	−19.971	− 33
466	20 Comae	6.0	A	12 25 39.208	+3.0169	+ 26	+21 20 40.10	−19.959	− 39
465	δ Corvi	2.8	A	12 25 40.247	+3.1012	−145	−16 3 52.63	−20.062	−142
467	[74 Ursae maj.]	5.6	A 5	12 26 10.671	+2.8110	− 96	+58 51 4.53	−19.827	+ 88
468	[γ Crucis]	1.6	M b	12 26 39.787	+3.3111	+ 26	−56 39 35.45	−20.188	−278
469	[γ Muscae]	3.9	B 5	12 27 36.728	+3.5498	− 82	−71 41 8.81	−19.922	− 22
470	8 Can. ven.	4.3	G	12 29 53.994	+2.8548	−625	+41 47 50.59	−19.595	+280
472	κ Draconis	3.6	B 5 p	12 30 2.027	+2.5750	−117	+70 14 4.40	−19.866	+ 7
471	β Corvi	2.6	G 5	12 30 7.709	+3.1464	− 4	−22 56 56.33	−19.931	− 59
473	24 Comae seq.	5.1	K	12 31 4.090	+3.0113	+ 2	+18 49 22.08	−19.843	+ 18
474	α Muscae	2.8	B 3	12 32 20.322	+3.5489	− 55	−68 41 22.23	−19.878	− 32
475	[χ Virginis]	4.9	K	12 35 3.851	+3.0947	− 49	− 7 33 0.19	−19.848	− 37
476	γ Centauri	2.3	A	12 37 2.477	+3.2954	−205	−48 30 54.51	−19.804	− 20
477	[γ Virgin. m.]	3.5,3.5	F	12 37 33.296	+3.0390	−375	− 1 0 19.43	−19.772	+ 5
478	76 Ursae maj.	6.2	A	12 38 1.962	+2.6321	− 45	+63 9 27.34	−19.787	− 17
479	[Hydr. 330 G.]	5.9	K p	12 39 41.242	+3.1919	− 26	−27 52 46.94	−19.795	− 50
480	[β Muscae]	3.2	B 3	12 41 17.870	+3.6503	− 53	−67 39 53.83	−19.752	− 31

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ′ ″	″	
481	β Crucis	1.4	B 1	12 42 58.624	+3.4855	− 59	−59 14 46.27	−19.721	− 27
482	n Centauri	4.4	A 5	12 48 56.621	+3.3126	+ 45	−39 44 19.39	−19.628	− 37
483	ε Ursae maj.	1.7	A p	12 50 28.226	+2.6470	+137	+56 23 57.27	−19.572	− 11
484	δ Virginis	3.4	M a	12 51 31.356	+3.0212	−315	+ 3 50 14.27	−19.604	− 63
485	12 Can. ven. sq.	2.8	A p	12 52 14.490	+2.8104	−199	+38 45 19.97	−19.477	+ 50
486	8 Draconis	5.2	F	12 52 15.348	+2.3965	− 15	+65 52 39.62	−19.560	− 34
487	[δ Muscae]	3.6	K 2	12 56 40.533	+4.0816	+528	−71 6 44.39	−19.472	− 36
488	ε Virginis	2.8	K	12 58 8.689	+2.9866	−185	+11 23 39.19	−19.386	+ 18
489	[ξ² Centauri]	4.3	B 3	13 2 10.385	+3.4880	− 35	−49 28 22.17	−19.342	− 30
490	ϑ Virginis	4.3	A	13 5 45.256	+3.1041	− 24	− 5 6 24.93	−19.265	− 39
491	[17 Can. ven.]	6.1	A	13 6 20.200	+2.7587	− 59	+38 55 44.44	−19.180	+ 32
492	43 Comae	4.2	G	13 8 5.699	+2.8019	−602	+28 17 18.28	−18.288	+879
493	[η Muscae]	5.0	B 8	13 9 44.593	+4.0345	− 33	−67 27 56.85	−19.154	− 30
494	[20 Can. ven.]	4.6	F	13 13 54.784	+2.6938	−107	+40 59 54.99	−19.004	+ 8
495	γ Hydrae	3.1	G 5	13 14 30.873	+3.2568	+ 51	−22 44 40.71	−19.049	− 53
496	ι Centauri	2.9	A 2	13 16 2.228	+3.3629	−293	−36 17 7.64	−19.044	− 92
497	ζ Urs. maj. pr.	2.2	A p	13 20 40.034	+2.4204	+144	+55 20 52.95	−18.842	− 25
498	α Virginis	1.1	B 2	13 20 55.398	+3.1575	− 28	−10 44 20.20	−18.842	− 33
499	Gr. 2001	6.2	M a	13 24 4.023	+1.5268	+ 35	+72 48 42.66	−18.726	− 15
500	69 H. Urs. maj.	5.5	A	13 25 28.871	+2.2058	−110	+60 21 49.85	−18.630	+ 37
501	ζ Virginis	3.3	A 2	13 30 33.864	+3.0553	−190	− 0 10 56.13	−18.466	+ 35
502	17 H. Can. ven.	4.9	F	13 31 10.891	+2.6804	+ 64	+37 35 49.09	−18.493	− 14
503	[Chamael. 49 G.]	6.4	A	13 32 13.936	+5.0588	− 49	−75 16 16.48	−18.457	− 14
504	ε Centauri	2.4	B 1	13 34 44.690	+3.7828	− 37	−53 3 18.52	−18.391	− 34
505	[Gr. 2029]	5.9	G 5	13 35 14.117	+1.4373	− 86	+71 39 15.26	−18.340	0
506	[i Centauri]	4.3	F 5	13 41 4.747	+3.4009	−371	−32 38 4.66	−18.283	−156
507	τ Bootis	4.5	F 5	13 43 24.777	+2.8509	−340	+17 51 35.76	−18.011	+ 29
509	η Ursae maj.	1.8	B 3	13 44 21.068	+2.3674	−119	+49 43 1.56	−18.023	− 20
508	[υ Centauri]	3.3	B 2 p	13 44 43.770	+3.6021	− 28	−42 4 14.13	−18.008	− 19
510	89 Virginis	5.2	K	13 45 28.034	+3.2555	− 69	−17 43 52.16	−17.998	− 38
511	[i Draconis]	4.8	M a	13 49 3.992	+1.7524	0	+65 7 23.28	−17.820	− 2
512	ζ Centauri	2.6	B 2 p	13 50 28.648	+3.7275	− 70	−46 53 24.92	−17.822	− 60
513	η Bootis	2.8	G	13 50 49.679	+2.8570	− 42	+18 48 11.65	−18.111	−364
514	[Cent. 294 G.]	4.9	K	13 51 46.305	+4.3127	− 46	−63 17 24.65	−17.743	− 35
515	[47 Hydrae]	5.5	B 8	13 53 58.201	+3.3608	− 34	−24 34 38.87	−17.658	− 40
517	11 Bootis	6.3	A	13 57 30.161	+2.7217	− 57	+27 46 38.19	−17.460	+ 8
516	τ Virginis	4.2	A 2	13 57 31.376	+3.0518	+ 13	+ 1 56 9.25	−17.497	− 30
518	β Centauri	1	B 1	13 58 5.639	+4.2097	− 28	−59 58 58.84	−17.483	− 40
519	[π Hydrae]	3.4	K	14 1 45.240	+3.4101	+ 30	−26 17 34.15	−17.435	−153
520	ϑ Centauri	2.1	K	14 1 54.537	+3.5207	−439	−35 58 19.68	−17.806	−530

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ′ ″	″	
521	α Draconis	3.4	A	14 2 11.721	+1.6234	− 83	+64 45 45.67	−17.246	+ 16
522	*d* Bootis	4.9	F 5	14 6 42.329	+2.7372	− 12	+25 28 29.31	−17.129	− 69
523	κ Virginis	4.2	K	14 8 34.336	+3.1972	+ 4	− 9 53 50.30	−16.839	+ 134
524	4 Ursae min.	5.0	K	14 9 8.437	−0.2761	− 113	+77 55 41.34	−16.914	+ 32
525	ι Virginis	4.0	F 5	14 11 45.866	+3.1428	− 14	− 5 36 52.71	−17.254	− 431
526	α Bootis	1	K	14 11 57.979	+2.7358	− 777	+19 36 12.80	−18.813	−2000
528	[ι Bootis]	4.6	A 5	14 13 17.892	+2.1258	− 159	+51 44 25.41	−16.663	+ 86
527	λ Bootis	4.0	A	14 13 18.337	+2.2824	− 177	+46 27 35.00	−16.597	+ 152
529	[υ Centauri]	4.4	B 5	14 14 39.250	+4.1668	− 47	−56 0 51.38	−16.723	− 39
530	[Circini 10 G.]	5.9	A 2 p	14 18 21.926	+4.9303	− 41	−67 49 40.79	−16.537	− 36
531	ϑ Bootis	3.9	F 8	14 22 26.390	+2.0430	− 257	+52 13 28.77	−16.701	− 404
532	[52 Hydrae]	5.1	B 8	14 23 25.440	+3.5060	− 28	−29 7 42.03	−16.277	− 30
533	[φ Virginis]	5.0	K	14 24 1.630	+3.0893	− 90	− 1 51 55.92	−16.223	− 7
534	ρ Bootis	3.7	K	14 28 20.368	+2.5862	− 75	+30 43 34.90	−15.878	+ 113
535	γ Bootis	2.9	F	14 28 49.020	+2.4169	− 93	+38 39 43.11	−15.821	+ 145
536	[Gr. 2125]	6.4	A	14 29 30.843	+1.6281	− 59	+60 34 55.84	−15.910	+ 19
537	η Centauri	2.5	B 3 p	14 30 21.386	+3.7980	− 36	−41 48 10.09	−15.920	− 36
538	α Centauri[1])	1	K 5 : G	14 34 5.153	+4.0564	−4874	−60 30 6.83	−14.970	+ 713
540	[33 Bootis]	5.5	A	14 35 49.375	+2.2329	− 68	+44 45 12.97	−15.614	− 26
539	[α Circini]	3.3	F	14 35 56.486	+4.8132	− 320	−64 37 23.99	−15.819	− 238
541	[α Lupi]	2.4	B 2	14 36 32.053	+3.9764	− 20	−47 2 29.16	−15.585	− 36
543	ζ Bootis m.	3.6	A 2	14 37 16.806	+2.8641	+ 37	+14 4 30.11	−15.534	− 27
542	α Apodis	3.8	K 5	14 37 43.709	+7.3159	− 56	−78 42 9.07	−15.517	− 35
544	[c^1 Centauri]	4.1	K	14 38 41.817	+3.6601	− 61	−34 49 32.75	−15.627	− 198
545	μ Virginis	3.9	F 5	14 38 47.349	+3.1588	+ 69	− 5 18 24.59	−15.750	− 326
546	[*b* Lupi]	5.9	K	14 41 20.757	+4.1790	− 24	−52 2 29.78	−15.372	− 92
547	109 Virginis	3.7	A	14 42 9.138	+3.0314	− 75	+ 2 14 0.25	−15.273	− 39
548	α Librae	2.7	A 2	14 46 23.638	+3.3144	− 77	−15 42 21.55	−15.064	− 74
549	Gr. 2164	5.8	K	14 49 22.915	+1.5200	− 170	+59 37 21.63	−14.686	+ 129
550	β Ursae min.	2.0	K 5	14 50 55.558	−0.2020	− 78	+74 29 11.55	−14.717	+ 7
551	P. XIV, 221	6.0	A	14 52 23.791	+2.8309	− 10	+14 46 22.14	−14.655	− 18
552	β Lupi	2.7	B 2 p	14 53 13.097	+3.9166	− 51	−42 48 31.16	−14.648	− 60
553	[κ Centauri]	3.2	B 3	14 53 53.089	+3.8921	− 21	−41 46 48.23	−14.581	− 33
554	[2 H. Urs. min.]	4.8	M b	14 56 17.375	+0.9450	− 147	+66 15 17.57	−14.368	+ 34
555	β Bootis	3.3	G 5	14 58 53.693	+2.2600	− 36	+40 42 33.64	−14.285	− 43
556	γ Scorpii	3.4	M b	14 59 19.490	+3.5056	− 57	−24 57 52.42	−14.271	− 55
557	ψ Bootis	4.5	K	15 0 58.476	+2.5706	− 131	+27 15 45.86	−14.129	− 15
558	ζ Lupi	3.4	K	15 6 27.334	+4.2932	− 133	−51 47 30.93	−13.842	− 73
559	[ι Librae]	4.6	A p	15 7 36.023	+3.4148	− 32	−19 29 9.94	−13.744	− 47
561	[β Circini]	4.2	A 3	15 11 9.603	+4.6749	− 130	−58 29 59.30	−13.617	− 149

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
				h m s	s		° ′ ″	″	
562	[3 Serpentis]	5.5	G 2	15 11 9.693	+2.9807	— 12	+ 5 14 21.12	—13.474	— 7
560	γ Triang. austr.	2.9	A	15 11 19.611	+5.5619	—101	—68 22 53.87	—13.493	— 37
563	δ Bootis	3.2	K	15 12 14.231	+2.4191	+ 73	+33 36 58.63	—13.519	— 122
564	β Librae	2.5	B 8	15 12 38.746	+3.2254	— 64	— 9 5 5.75	—13.398	— 27
565	1 H. Urs. min.	5.3	G	15 13 42.180	+0.6793	+386	+67 39 14.71	—13.697	— 396
566	φ¹ Lupi	3.5	K 5	15 16 39.625	+3.7982	— 82	—35 58 6.66	—13.202	— 95
569	γ Ursae min.	3.0	A 2	15 20 50.735	—0.1140	— 32	+72 7 19.97	—12.812	+ 16
568	μ Bootis	4.1	F	15 21 25.805	+2.2662	—123	+37 39 38.00	—12.708	+ 81
570	[τ¹ Serpentis]	5.5	M a	15 22 1.934	+2.7815	— 11	+15 42 43.10	—12.772	— 24
567	[κ¹ Apodis]	5.9	B 5 p	15 22 39.290	+6.4773	+ 5	—73 6 36.67	—12.743	— 37
571	ι Draconis	3.2	K	15 23 7.541	+1.3320	— 5	+59 14 57.89	—12.660	+ 14
572	β Coron. bor.	3.7	F p	15 24 29.356	+2.4738	—131	+29 23 2.98	—12.506	+ 76
573	ν¹ Bootis	4.8	K 5	15 28 1.169	+2.1548	+ 10	+41 6 30.65	—12.353	— 13
574	[ε Triang. austr.]	4.3	K	15 29 17.321	+5.4563	+ 29	—66 2 45.87	—12.333	— 82
576	[ϑ Coron. bor.]	4.1	B 5	15 29 39.772	+2.4186	— 17	+31 37 54.07	—12.252	— 26
575	γ Lupi	2.9	B 3	15 29 44.158	+3.9875	— 26	—40 53 43.98	—12.261	— 39
577	γ Librae	4.1	K	15 30 59.538	+3.3525	+ 43	—14 31 13.01	—12.131	+ 3
578	α Coron. bor.	2.2	A	15 31 15.476	+2.5398	+ 93	+26 59 11.39	—12.214	— 98
579	[3 H. Scorpii]	3.9	K 2	15 32 6.141	+3.6361	— 11	—27 52 4.16	—12.067	— 11
580	[φ Bootis]	5.3	K	15 34 55.052	+2.1545	+ 58	+40 36 59.25	—11.807	+ 52
581	[γ Coron. bor.]	3.8	A	15 39 20.459	+2.5194	— 74	+26 33 4.99	—11.511	+ 34
582	α Serpentis	2.5	K	15 40 16.614	+2.9535	+ 91	+ 6 40 46.50	—11.435	+ 42
583	β Serpentis	3.4	A 2	15 42 26.915	+2.7683	+ 51	+15 40 27.93	—11.376	— 54
584	κ Serpentis	4.0	K 5	15 45 5.586	+2.7000	— 31	+18 23 26.97	—11.228	— 98
585	μ Serpentis	3.3	A	15 45 23.461	+3.1286	— 59	— 3 10 59.86	—11.140	— 32
587	[12 H. Dracon.]	5.3	A 2	15 45 25.667	+0.9089	+ 55	+62 50 58.43	—11.167	— 61
586	[χ Lupi]	4.1	B 9	15 45 48.384	+3.8050	— 15	—33 22 52.99	—11.108	— 30
588	ε Serpentis	3.5	A	15 46 46.611	+2.9889	+ 84	+ 4 43 14.24	—10.948	+ 59
590	ζ Ursae min.	4.3	A 2	15 46 55.168	—2.1980	+ 60	+78 2 39.51	—10.997	— 1
589	β Triang. austr.	2.9	F	15 47 59.534	+5.2618	—279	—63 10 55.38	—11.325	— 407
591	[γ Serpentis]	3.7	F 8	15 52 42.637	+2.7699	+212	+15 55 30.14	—11.864	—1295
592	[π Scorpii]	3.0	B 2 p	15 53 56.850	+3.6240	— 15	—25 52 55.48	—10.515	— 37
593	ε Coron. bor.	4.0	K	15 54 13.991	+2.4828	— 61	+27 6 41.76	—10.525	— 68
594	δ Scorpii	2.3	B	15 55 32.435	+3.5433	— 8	—22 23 32.32	—10.395	— 36
595	[Gr. 2296]	5.1	A 5	15 55 51.971	+1.4200	—187	+54 58 41.38	—10.223	+ 111
598	ϑ Draconis	3.8	F 8	16 0 22.158	+1.1212	—402	+58 46 52.45	— 9.655	+ 340
597	β Scorpii	2.6	B 1	16 0 43.433	+3.4845	— 7	—19 35 5.38	— 9.995	— 27
596	[δ Normae]	4.8	A 3 p	16 0 45.590	+4.2299	— 5	—44 57 17.25	— 9.959	+ 6
599	[ϑ Lupi]	4.4	B 3	16 1 16.061	+3.9315	— 29	—36 34 58.47	— 9.967	— 41
601	[φ Herculis]	4.0	A	16 6 13.010	+1.8894	— 23	+45 8 47.75	— 9.517	+ 31

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
				h m s	s		° ′ ″	″	
600	[ϰ Normae]	5.3	K	16 7 4.780	+4.7145	− 42	−54 25 21.14	−9.547	− 65
602	[δ Triang. austr.]	4.0	G	16 8 3.175	+5.4382	+ 7	−63 28 48.73	−9.433	− 26
603	δ Ophiuchi	2.8	M a	16 10 5.942	+3.1419	− 30	− 3 29 12.46	−9.398	−150
606	19 Ursae min.	5.8	B 8	16 13 6.826	−1.7445	− 4	+76 4 55.33	−9.001	+ 12
604	γ^2 Normae	4.2	K	16 13 46.267	+4.4762	−190	−49 57 29.07	−9.023	− 61
605	ε Ophiuchi	3.2	K	16 14 2.010	+3.1720	+ 53	− 4 29 46.03	−8.910	+ 31
607	[σ Scorpii]	3.1	B 1	16 16 15.695	+3.6422	− 11	−25 23 58.62	−8.800	− 33
608	τ Herculis	3.6	B 5	16 17 18.309	+1.8024	− 9	+46 30 20.24	−8.652	+ 32
609	γ Herculis	3.5	F	16 18 20.751	+2.6453	− 36	+19 20 32.89	−8.562	+ 40
610	[ζ Triang. austr.]	5.2	G	16 19 44.127	+6.4178	+366	−69 54 13.20	−8.409	+ 83
612	[η Ursae min.]	5.1	F	16 19 51.200	−1.7845	−217	+75 56 33.21	−8.227	+256
611	γ Apodis	3.9	K	16 20 58.905	+9.1173	−385	−78 43 3.87	−8.465	− 71
613	[ω Herculis]	4.7	A p	16 21 40.602	+2.7676	+ 28	+14 13 7.47	−8.407	− 68
614	[Gr. 2343]	5.8	A	16 22 38.958	+1.3104	+ 20	+55 23 19.77	−8.243	+ 18
615	η Draconis	2.7	G 5	16 22 53.432	+0.8077	− 28	+61 41 50.25	−8.181	+ 61
616	α Scorpii	1.2	M a p	16 24 26.264	+3.6747	− 7	−26 15 12.29	−8.147	− 28
618	β Herculis	2.6	K	16 26 44.226	+2.5782	− 69	+21 39 54.75	−7.954	− 21
617	[λ Ophiuchi]	3.7	A	16 26 49.597	+3.0241	− 23	+ 2 9 36.31	−8.017	− 90
619	*A* Draconis	5.0	B 8 p	16 28 8.049	−0.1283	− 51	+68 56 36.33	−7.786	+ 35
620	[τ Scorpii]	2.9	B	16 30 50.193	+3.7304	− 11	−28 2 57.02	−7.637	− 33
621	σ Herculis	4.1	A	16 31 29.474	+1.9336	− 6	+42 36 12.24	−7.512	+ 38
622	ζ Ophiuchi	2.6	B	16 32 41.804	+3.3014	+ 9	−10 24 14.78	−7.430	+ 22
623	[Gr. 2373]	6.5	G 5	16 34 6.308	−2.6193	−317	+77 36 30.67	−7.063	+275
624	[24 Scorpii]	5.2	K	16 36 53.152	+3.4669	− 18	−17 35 11.31	−7.114	− 2
625	α Triang. austr.	1.9	K 2	16 40 4.405	+6.3275	+ 32	−68 52 51.29	−6.899	− 49
626	η Herculis	3.3	K	16 40 7.116	+2.0563	+ 34	+39 4 32.27	−6.930	− 84
627	Gr. 2377	4.9	F 5	16 43 45.533	+1.1360	+ 29	+56 55 34.10	−6.488	+ 58
628	ε Scorpii	2.3	K	16 44 54.779	+3.8808	−501	−34 8 50.41	−6.705	−254
629	49 Herculis	6.5	A	16 48 23.541	+2.7306	+ 12	+15 6 32.92	−6.168	− 6
630	ζ^2 Scorpii	3.8	K 5	16 48 52.693	+4.2142	−134	−42 13 25.86	−6.359	−238
631	ζ Arae	3.0	K 5	16 51 54.651	+4.9544	− 30	−55 51 49.35	−5.916	− 48
632	[ε^1 Arae]	4.0	K 2	16 53 7.269	+4.7715	− 19	−53 2 14.97	−5.775	− 8
633	ϰ Ophiuchi	3.2	K	16 53 49.996	+2.8385	−198	+ 9 29 59.86	−5.720	− 13
634	ε Herculis	3.6	A	16 57 11.399	+2.2949	− 35	+31 2 41.51	−5.401	+ 24
635	[60 Herculis]	4.9	A 3	17 1 37.271	+2.7811	+ 34	+12 51 3.85	−5.066	− 15
636	[Gr. 2415]	6.4	A	17 5 8.162	+1.9562	− 29	+40 37 16.54	−4.781	− 28
637	η Ophiuchi	2.4	A	17 5 43.853	+3.4383	+ 23	−15 37 32.74	−4.612	+ 90
638	[η Scorpii]	3.4	F 2	17 6 20.902	+4.2923	+ 17	−43 8 1.46	−4.948	−298
639	ζ Draconis	3.0	B 5	17 8 32.945	+0.1690	− 29	+65 48 51.54	−4.441	+ 22
640	α Herculis	(3.0)	M b	17 10 57.195	+2.7346	− 8	+14 28 53.99	−4.228	+ 29

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
				h m s	s		° ′ ″	″	
641	δ Herculis	3.0	A	17 11 42.238	+2.4637	— 15	+24 56 1.89	—4.352	—159
643	π Herculis	3.1	K 2	17 12 13.519	+2.0890	— 21	+36 53 58.89	—4.147	+ 1
642	[ι Apodis]	5.7	A	17 13 3.182	+6.6740	— 14	—70 2 24.07	—4.104	— 27
644	ϑ Ophiuchi	3.2	B 3	17 17 1.976	+3.6820	— 7	—24 55 11.52	—3.761	— 25
645	β Arae	2.7	K 2	17 18 33.749	+4.9808	— 14	—55 27 17.63	—3.647	— 42
646	[*d* Ophiuchi]	4.5	F 5	17 22 10.782	+3.8281	+ 6	—29 47 41.74	—3.438	—145
647	[27 H. Ophiuchi]	4.5	F	17 22 19.964	+3.1826	— 58	— 5 0 57.98	—3.330	— 51
648	δ Arae	3.6	B 8	17 23 46.972	+5.4095	— 70	—60 37 4.15	—3.256	—101
650	[*x* Herculis]	6.0	A	17 24 35.386	+1.5895	+ 2	+48 19 38.29	—3.103	— 19
649	[υ Scorpii]	2.8	B 3	17 25 15.166	+4.0742	— 24	—37 13 56.98	—3.067	— 39
651	α Arae	2.8	B 3 p	17 25 34.624	+4.6332	— 38	—49 48 48.50	—3.093	— 94
652	λ Scorpii	1.7	B 2	17 28 6.335	+4.0703	— 14	—37 2 45.50	—2.813	— 32
653	β Draconis	2.7	G	17 28 36.108	+1.3546	— 15	+52 21 38.95	—2.728	+ 10
655	[ν¹ Draconis]	4.7	A 5	17 30 34.829	+1.1806	+176	+55 14 20.83	—2.515	+ 51
657	[ν² Draconis]	4.8	A 5	17 30 40.242	+1.1818	+181	+55 13 39.56	—2.506	+ 52
656	α Ophiuchi	2.1	A 5	17 31 10.419	+2.7838	+ 79	+12 37 4.68	—2.748	—233
654	ϑ Scorpii	1.9	F	17 31 29.738	+4.3070	0	—42 56 51.76	—2.505	— 18
659	[*f* Draconis]	5.2	K	17 32 17.115	—0.2450	— 32	+68 11 12.14	—2.284	+134
658	ξ Serpentis	3.5	A 5	17 32 56.831	+3.4335	— 34	—15 20 55.42	—2.425	— 64
660	[κ Scorpii]	2.5	B 2	17 36 52.919	+4.1475	— 15	—38 59 22.10	—2.045	— 26
663	ι Herculis	3.6	B 3	17 37 10.660	+1.6929	— 5	+46 2 55.35	—1.996	— 4
664	ω Draconis	4.9	F 5	17 37 25.393	—0.3539	+ 12	+68 47 43.88	—1.648	+323
662	[μ Arae]	5.6	K	17 37 42.636	+4.7594	— 29	—51 47 32.62	—2.155	—208
661	η Pavonis	3.5	K	17 37 46.721	+5.8826	— 22	—64 41 12.16	—1.996	— 56
665	β Ophiuchi	2.8	K	17 39 28.225	+2.9629	— 27	+ 4 36 0.14	—1.640	+153
666	[ι¹ Scorpii]	3.0	F 5 p	17 41 55.029	+4.1934	— 10	—40 5 48.58	—1.583	— 3
667	μ Herculis	3.3	G 5	17 43 17.239	+2.3468	—241	+27 46 1.93	—2.211	—751
670	ψ Draconis	4.7	F 5	17 43 22.520	—1.0730	+ 29	+72 11 20.26	—1.720	—267
668	[γ Ophiuchi]	3.7	A	17 43 49.834	+3.0074	— 16	+ 2 44 12.05	—1.490	— 77
669	[*G* Scorpii]	3.1	K 2	17 44 20.599	+4.0822	+ 42	—37 1 7.51	—1.342	+ 26
671	ξ Draconis	3.6	K	17 52 7.675	+1.0371	+120	+56 53 5.86	—0.612	+ 76
675	35 Draconis	5.1	F 5	17 53 4.369	—2.6898	+116	+76 58 27.92	—0.365	+241
672	ϑ Herculis	3.8	K	17 53 28.482	+2.0569	+ 4	+37 15 37.78	—0.566	+ 5
673	ν Ophiuchi	3.4	K	17 54 33.996	+3.3019	— 7	— 9 45 53.05	—0.593	—118
674	[ξ Herculis]	3.7	K	17 54 37.013	+2.3310	+ 66	+29 15 20.44	—0.496	— 26
676	γ Draconis	2.3	K 5	17 54 43.487	+1.3924	— 9	+51 29 52.34	—0.484	— 22
677	67 Ophiuchi	4.0	B 5 p	17 56 35.270	+3.0042	0	+ 2 56 3.88	—0.312	— 13
678	[Apodis 66 G.]	6.0	A	17 59 55.554	+8.3865	— 47	—75 53 44.29	—0.276	—270
679	γ Sagittarii	3.0	K	18 0 36.219	+3.8528	— 47	—30 25 34.85	—0.141	—194
680	72 Ophiuchi	3.6	A 2	18 3 30.544	+2.8437	— 42	+ 9 33 4.76	+0.385	+ 78

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
681	o Herculis	3.8	A	18h 4m 22s.949	+2s.3399	+ 2	+28° 45′ 1″.55	+0″.383	0
682	μ Sagittarii	3.9	B 8 p	18 8 55.129	+3.5872	− 3	−21 4 52.51	+0.777	− 3
683	[η Sagittarii]	3.1	M b	18 12 8.727	+4.0588	− 117	−36 47 14.01	+0.899	−163
684	[Gr. 2533]	5.6	B 5	18 13 7.573	+1.8653	− 6	+42 7 51.46	+1.141	− 7
685	[36 Draconis]	5.0	F 5	18 13 25.824	+0.3454	+ 533	+64 22 10.79	+1.204	+ 30
686	[ξ Pavonis]	4.2	K 2	18 15 45.693	+5.5288	− 26	−61 31 55.52	+1.395	+ 17
687	[δ Sagittarii]	2.7	K	18 15 48.501	+3.8409	+ 27	−29 51 49.46	+1.350	− 32
688	η Serpentis	3.2	K	18 17 7.089	+3.1035	− 372	− 2 55 15.36	+0.797	−698
689	ε Sagittarii	1.9	A	18 18 47.731	+3.9825	− 30	−34 25 26.77	+1.515	−127
690	109 Herculis	3.9	K	18 20 14.757	+2.5561	+ 140	+21 43 54.75	+1.511	−257
691	α Telescopii	3.7	B 3	18 20 58.055	+4.4493	− 21	−46 0 51.48	+1.784	− 47
693	[φ Draconis]	4.3	A p	18 21 55.232	−0.8579	− 17	+71 17 41.81	+1.947	+ 33
695	χ Draconis	3.6	F 8	18 22 31.110	−1.0800	+1167	+72 41 52.90	+1.602	−364
694	*b* Draconis	5.1	A 2	18 22 43.675	+0.8765	− 45	+58 45 12.26	+2.043	+ 58
692	[λ Sagittarii]	2.8	K	18 22 58.295	+3.7023	− 37	−25 28 3.55	+1.818	−188
696	[2 H. Scuti]	4.8	A 3	18 24 34.840	+3.4190	− 3	−14 37 6.59	+2.148	+ 2
697	[ϑ Coron. austr.]	4.7	G 5	18 27 43.114	+4.2843	+ 14	−42 22 19.74	+2.395	− 24
698	ζ Pavonis	4.0	K	18 33 34.634	+7.0213	− 25	−71 29 59.09	+2.749	−178
700	[Gr. 2655]	6.1	K	18 33 40.202	−2.8838	− 10	+77 29 5.17	+2.932	− 3
699	α Lyrae	1	A	18 34 11.745	+2.0313	+ 176	+38 42 27.02	+3.261	+281
701	[Gr. 2640]	6.2	A	18 35 58.058	+0.1895	+ 19	+65 24 57.96	+3.217	+ 84
702	[5 H. Scuti]	5.1	G	18 39 6.581	+3.2674	+ 13	− 8 21 22.61	+3.414	+ 9
703	110 Herculis	4.1	F 5	18 42 10.521	+2.5811	− 12	+20 28 4.26	+3.328	−340
704	λ Pavonis	4.3	B 2	18 44 42.915	+5.5653	− 26	−62 16 55.40	+3.859	− 27
705	β Lyrae	(3.3)	B 2 p	18 47 5.352	+2.2147	+ 3	+33 16 4.40	+4.088	− 2
707	o Draconis	4.6	K	18 50 0.434	+0.8869	+ 105	+59 17 20.36	+4.364	+ 24
706	σ Sagittarii	2.1	B 3	18 50 14.596	+3.7206	+ 4	−26 23 54.87	+4.297	− 63
708	λ Telescopii	5.1	B 9	18 51 59.112	+4.8038	+ 3	−53 2 45.00	+4.523	+ 14
709	ϑ Serpent. pr.	4.5	A 5	18 52 11.566	+2.9823	+ 29	+ 4 5 49.65	+4.554	+ 28
711	*R* Lyrae	(4.5)	M b	18 52 52.238	+1.8262	+ 28	+43 50 19.22	+4.659	+ 76
710	[ξ Sagittarii]	3.6	K	18 52 53.893	+3.5794	+ 18	−21 12 51.45	+4.569	− 16
714	[υ Draconis]	5.0	K	18 55 23.707	−0.7260	+ 103	+71 11 20.92	+4.838	+ 40
713	γ Lyrae	3.2	A	18 55 54.790	+2.2437	− 4	+32 34 39.50	+4.841	− 2
712	[ε Aquilae]	4.0	K	18 55 56.741	+2.7221	− 42	+14 57 26.29	+4.765	− 80
715	[ζ Sagittarii]	2.7	A 2	18 57 27.531	+3.8180	− 21	−29 59 49.31	+4.975	+ 2
716	ζ Aquilae	3.0	A	19 1 41.214	+2.7569	− 7	+13 44 31.41	+5.230	−101
717	λ Aquilae	3.2	A	19 1 57.034	+3.1839	− 16	− 5 0 18.15	+5.266	− 87
718	α Coron. austr.	4.1	A 2	19 3 57.761	+4.0835	+ 59	−38 1 54.96	+5.413	−109
719	[ι Lyrae]	5.2	B 5	19 4 24.668	+2.1406	− 3	+35 58 20.65	+5.556	− 3
720	π Sagittarii	2.9	F 2	19 4 56.848	+3.5686	− 5	−21 9 12.68	+5.569	− 35

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
				h m s	s		° ′ ″	″	
721	[Pavonis 60 G.]	5.7	A 2	19 9 3.891	+6.0498	− 7	−66 48 9.15	+ 5.929	− 21
723	δ Draconis	3.0	K	19 12 32.421	+0.0206	+ 167	+67 31 8.44	+ 6.327	+ 88
722	[*d* Sagittarii]	5.2	K 5	19 12 53.803	+3.5110	− 12	−19 5 53.18	+ 6.260	− 9
724	ϑ Lyrae	4.3	K	19 13 33.366	+2.0816	− 7	+37 59 19.32	+ 6.322	− 1
725	ω Aquilae	5.4	A	19 14 0.863	+2.8158	− 3	+11 26 54.17	+ 6.375	+ 13
726	ϰ Cygni	3.8	K	19 15 13.893	+1.3875	+ 69	+53 13 6.48	+ 6.582	+ 119
727	[υ Sagittarii]	4.5	B 8 p	19 17 5.364	+3.4370	0	−16 6 29.02	+ 6.614	− 2
729	τ Draconis	4.5	K	19 17 7.153	−1.1392	− 325	+73 12 19.84	+ 6.729	+ 110
728	α Sagittarii	4.0	B 8	19 18 16.574	+4.1602	+ 18	−40 46 10.19	+ 6.596	− 118
730	δ Aquilae	3.3	F	19 21 24.870	+3.0248	+ 168	+ 2 57 8.19	+ 7.053	+ 81
731	[Sagittar. 186 G.]	5.8	A	19 21 49.437	+3.7935	+ 7	−29 54 16.26	+ 6.959	− 47
734	[Gr. 2900]	6.4	A	19 26 37.332	−3.5812	+ 95	+79 26 29.67	+ 7.362	− 35
732	β Cygni	3.0	K p	19 27 27.262	+2.4189	− 2	+27 47 19.34	+ 7.457	− 8
733	ι Cygni	3.9	A 2	19 27 39.855	+1.5132	+ 22	+51 33 23.80	+ 7.607	+ 125
735	[ι Telescopii]	5.1	K	19 29 12.575	+4.4550	− 41	−48 16 30.01	+ 7.567	− 40
736	*h* Sagittarii	4.6	B 9	19 31 46.778	+3.6528	+ 46	−25 3 48.53	+ 7.793	− 22
737	[ϰ Aquilae]	5.0	B	19 32 32.086	+3.2284	+ 3	− 7 12 30.73	+ 7.876	0
738	ϑ Cygni	4.5	F 5	19 34 16.151	+1.6084	− 29	+50 1 58.29	+ 8.262	+ 247
740	[15 Cygni]	5.2	K	19 41 21.302	+2.1632	+ 59	+37 9 28.72	+ 8.614	+ 35
739	[ν Telescopii]	5.5	A 5	19 41 24.665	+4.9099	+ 86	−56 33 30.67	+ 8.447	− 137
741	γ Aquilae	2.7	K 2	19 42 24.526	+2.8521	+ 9	+10 24 53.92	+ 8.662	0
742	δ Cygni	2.8	A	19 42 26.617	+1.8756	+ 51	+44 55 56.49	+ 8.704	+ 39
743	δ Sagittae	3.8	M a p	19 43 46.554	+2.6749	+ 4	+18 20 0.89	+ 8.783	+ 13
744	[51 Aquilae]	5.8	A	19 46 19.471	+3.3023	− 21	−10 58 11.74	+ 9.011	+ 41
745	α Aquilae	1	A 5	19 46 49.871	+2.9270	+ 360	+ 8 39 12.53	+ 9.392	+ 383
746	[η Aquilae]	(4.0)	G	19 48 20.838	+3.0567	+ 6	+ 0 47 48.40	+ 9.119	− 9
747	ε Draconis	3.8	K	19 48 27.283	−0.1907	+ 156	+70 3 41.79	+ 9.166	+ 30
748	ε Pavonis	3.8	A	19 51 14.787	+6.9840	+ 147	−73 7 33.72	+ 9.220	− 132
749	β Aquilae	3.7	K	19 51 20.068	+2.9467	+ 25	+ 6 12 12.73	+ 8.880	− 480
750	ψ Cygni	5.0	A 3	19 53 32.164	+1.5515	− 43	+52 13 24.12	+ 9.498	− 31
751	ϑ¹ Sagittarii	4.3	B 3	19 54 27.986	+3.9082	− 12	−35 29 47.19	+ 9.565	− 36
752	γ Sagittae	3.6	K 5	19 55 9.273	+2.6675	+ 43	+19 16 16.66	+ 9.678	+ 24
753	[*c* Sagittarii]	4.6	M b	19 57 40.785	+3.6921	+ 21	−27 56 9.84	+ 9.864	+ 18
754	δ Pavonis	3.5	G 5	20 0 47.581	+5.9111	+1960	−66 23 24.57	+ 8.919	−1164
755	[ξ Telescopii]	5.2	M a	20 1 11.077	+4.6059	− 44	−53 6 50.14	+10.111	− 2
756	ϑ Aquilae	3.1	A	20 7 7.568	+3.0959	+ 22	− 1 3 45.56	+10.563	+ 5
757	o¹ Cygni sq.	4.3	K p	20 11 4.859	+1.8892	+ 4	+46 29 42.08	+10.851	+ 1
758	[33 Cygni]	4.3	A 3	20 11 30.948	+1.3960	+ 74	+56 19 10.23	+10.967	+ 85
759	ϰ Cephei	4.3	B 9	20 11 38.516	−1.9733	+ 12	+77 28 5.09	+10.918	+ 27
760	24 Vulpeculae	5.7	K	20 13 19.117	+2.5669	+ 12	+24 25 14.78	+10.995	− 19

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ′ ″	″	
761	α² Capricorni	3.6	K	20 13 33.715	+3.3301	+ 40	−12 47 48.41	+11.043	+ 11
762	[β Capricorni]	3.1	G p	20 16 27.707	+3.3722	+ 23	−15 2 17.14	+11.248	+ 6
763	[κ¹ Sagittarii]	5.8	A	20 16 57.829	+4.0819	+ 37	−42 18 21.41	+11.183	− 96
764	α Pavonis	1.9	B 3	20 19 14.930	+4.7630	+ 11	−56 59 44.55	+11.359	− 85
765	γ Cygni	2.3	F 8 p	20 19 19.245	+2.1527	+ 4	+39 59 48.31	+11.449	0
766	[ρ Capricorni]	5.0	F	20 24 14.538	+3.4241	− 14	−18 4 56.36	+11.784	− 16
767	ϑ Cephei	4.1	A	20 28 13.509	+1.0108	+ 62	+62 43 17.45	+12.065	− 14
768	ε Delphini	3.9	B 5	20 29 20.597	+2.8662	+ 5	+11 1 37.58	+12.132	− 25
769	α Jndi	3.0	K	20 31 52.494	+4.2288	+ 33	−47 34 29.95	+12.393	+ 60
770	73 Draconis	5.3	A 3	20 32 35.582	−0.7613	+ 15	+74 40 38.07	+12.370	− 12
771	β Delphini	3.5	F 5	20 33 45.039	+2.8130	+ 74	+14 18 45.15	+12.425	− 36
772	[κ Delphini]	5.1	G 2	20 35 11.720	+2.9140	+ 212	+ 9 48 0.28	+12.578	+ 18
773	υ Capricorni	5.5	M a	20 35 26.453	+3.4176	− 17	−18 25 29.08	+12.561	− 16
774	α Delphini	3.7	B 8	20 35 52.548	+2.7866	+ 45	+15 37 31.68	+12.600	− 6
775	β Pavonis	3.3	A 5	20 37 40.596	+5.4394	− 71	−66 29 43.99	+12.730	+ 2
776	[η Jndi]	4.8	F	20 38 5.875	+4.4178	+ 157	−52 12 41.23	+12.684	− 73
777	α Cygni	1.3	A 2	20 38 40.206	+2.0448	+ 4	+44 59 24.94	+12.795	− 1
778	[δ Delphini]	4.2	A 2	20 39 40.642	+2.8008	− 14	+14 46 59.38	+12.816	− 48
779	[ψ Capricorni]	4.2	F 8	20 41 18.149	+3.5556	− 44	−25 33 46.55	+12.815	− 157
780	ε Cygni	2.4	K	20 42 56.000	+2.4272	+ 290	+33 39 58.23	+13.408	+ 327
781	ε Aquarii	3.6	A	20 43 17.550	+3.2490	+ 17	− 9 47 35.08	+13.076	− 28
782	[6 H. Cephei]	4.5	G	20 43 20.527	+1.4898	− 87	+57 17 18.97	+12.873	− 234
783	η Cephei	3.5	K	20 43 38.676	+1.2241	+ 132	+61 31 25.65	+13.946	+ 818
784	λ Cygni	4.6	B 5	20 44 15.163	+2.3360	+ 5	+36 11 32.84	+13.167	0
785	β Jndi	3.6	K	20 48 29.324	+4.7068	0	−58 45 38.71	+13.418	− 27
786	32 Vulpeculae	5.3	K	20 51 6.438	+2.5563	− 4	+27 44 55.94	+13.615	+ 1
788	ν Cygni	3.9	A	20 54 9.157	+2.2358	+ 9	+40 51 16.67	+13.791	− 17
787	[α Octantis]	5.5	F 5	20 54 57.094	+7.3672	− 17	−77 20 2.67	+13.504	− 355
789	[11 Aquarii]	6.4	F 8	20 56 17.974	+3.1598	+ 23	− 5 2 38.20	+13.811	− 133
790	ζ Microscopii	5.4	F	20 57 47.647	+3.8402	− 36	−38 56 55.35	+13.916	− 122
792	[ξ Cygni]	3.9	K 5	21 1 59.044	+2.1817	+ 12	+43 36 14.57	+14.294	− 3
791	[A Capricorni]	4.6	M a	21 2 23.551	+3.5123	− 30	−25 19 49.81	+14.275	− 47
793	61 Cygni pr.	5.4	K 5	21 3 15.889	+2.6863	+3505	+38 21 1.52	+17.628	+3253
794	ν Aquarii	4.4	K	21 5 11.028	+3.2701	+ 62	−11 42 1.46	+14.482	− 9
795	Br. 2777	6.0	A	21 7 8.721	−1.1514	+ 74	+77 47 53.52	+14.645	+ 36
797	ζ Cygni	3.1	K	21 9 29.279	+2.5523	− 1	+29 53 38.45	+14.690	− 58
798	[Gr. 3415]	5.8	B 1	21 9 44.548	+1.5281	− 6	+59 39 10.99	+14.762	− 2
796	[Jndi 23 G.]	5.9	A 5	21 9 59.074	+4.2954	− 19	−53 35 58.13	+14.732	− 46
799	[τ Cygni]	3.8	F	21 11 33.406	+2.3938	+ 137	+37 41 56.64	+15.306	+ 435
800	α Equulei	3.9	A 8 p	21 11 46.520	+2.9995	+ 38	+ 4 54 43.96	+14.796	− 87

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in $0^s.0001$	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ′ ″	″	
801	[4 Pisc. austr.]	4.8	A	21 13 1.800	+3.6432	+ 35	−32 30 42.51	+14.930	− 26
802	[ϑ¹ Microscop.]	4.9	A 2 p	21 15 35.141	+3.8476	+ 70	−41 9 9.25	+15.119	+ 14
803	α Cephei	2.5	A 5	21 16 38.834	+1.4335	+ 212	+62 14 31.26	+15.215	+ 49
804	1 Pegasi	4.2	K	21 18 20.399	+2.7740	+ 74	+19 27 26.05	+15.323	+ 61
805	γ Pavonis	4.2	F 8	21 19 45.788	+4.9936	+ 131	−65 44 1.55	+16.130	+ 788
806	ζ Capricorni	3.8	G p	21 22 2.731	+3.4291	− 1	−22 45 46.64	+15.493	+ 23
807	[g Cygni]	5.4	K	21 26 27.553	+2.2127	+ 49	+46 10 58.30	+15.816	+ 103
808	β Aquarii	2.9	G	21 27 17.758	+3.1596	+ 11	− 5 55 41.47	+15.753	− 5
809	β Cephei	3.1	B 1	21 27 37.269	+0.7840	+ 20	+70 12 17.81	+15.782	+ 7
810	ν Octantis	3.7	K	21 32 31.212	+6.7790	+ 132	−77 45 3.37	+15.780	− 256
811	74 Cygni	5.1	A 5	21 33 42.050	+2.4030	− 3	+40 2 56.72	+16.110	+ 12
812	[γ Capricorni]	3.6	F p	21 35 36.336	+3.3269	+ 131	−17 1 43.68	+16.180	− 16
813	[13 H. Cephei]	6.1	Oe 5	21 36 26.826	+1.8615	+ 7	+57 7 20.45	+16.242	+ 2
814	[ι Pisc.austr.]	4.4	A	21 40 7.541	+3.5794	+ 18	−33 23 45.59	+16.337	− 89
815	ε Pegasi	2.3	K	21 40 12.455	+2.9464	+ 18	+ 9 30 10.73	+16.430	0
817	[11 Cephei]	4.8	K	21 40 44.420	+0.8881	+ 234	+70 56 17.73	+16.555	+ 98
816	[κ Pegasi]	4.1	F 5	21 40 58.566	+2.7155	+ 25	+25 16 19.66	+16.479	+ 10
818	[λ Capricorni]	5.5	A	21 42 10.613	+3.2318	+ 20	−11 44 24.35	+16.525	− 4
819	δ Capricorni	2.8	A 5	21 42 34.330	+3.3139	+ 178	−16 29 43.80	+16.255	− 294
821	π² Cygni	4.3	B 3	21 43 47.957	+2.2148	+ 8	+48 56 3.23	+16.605	− 4
820	[ο Jndi]	5.6	K 5	21 43 57.346	+5.1185	− 87	−70 0 26.30	+16.595	− 21
822	γ Gruis	3.0	A	21 49 1.703	+3.6399	+ 77	−37 44 47.37	+16.842	− 18
823	16 Pegasi	5.2	B 3	21 49 22.529	+2.7285	+ 4	+25 32 36.55	+16.878	+ 1
824	[δ Jndi]	4.6	F	21 52 24.851	+4.0997	+ 43	−55 22 42.89	+16.990	− 29
826	[20 Pegasi]	5.8	F	21 57 8.550	+2.9220	+ 36	+12 43 52.75	+17.179	− 54
825	[ε Jndi]	4.9	K 5	21 57 10.493	+4.6094	+4811	−57 7 10.68	+14.653	−2582
827	α Aquarii	2.9	G	22 1 37.454	+3.0819	+ 10	− 0 42 50.07	+17.424	− 7
828	ι Aquarii	4.2	B 8	22 2 3.868	+3.2423	+ 24	−14 15 47.43	+17.398	− 51
830	20 Cephei	5.7	K 5	22 2 32.729	+1.8220	+ 22	+62 23 24.44	+17.530	+ 60
829	α Gruis	1.8	B 5	22 3 8.089	+3.7928	+ 119	−47 21 14.58	+17.324	− 171
831	[ι Pegasi]	3.9	F 5	22 3 14.332	+2.7913	+ 219	+24 56 56.17	+17.522	+ 22
832	[μ Pisc.austr.]	4.6	A 2	22 3 39.625	+3.5049	+ 41	−33 23 3.77	+17.477	− 41
833	[27 Pegasi]	5.8	K	22 5 38.203	+2.6567	− 42	+32 46 34.14	+17.536	− 65
834	ϑ Pegasi	3.6	A	22 6 6.841	+3.0264	+ 184	+ 5 47 55.74	+17.652	+ 31
835	π Pegasi	4.3	F 5	22 6 23.292	+2.6624	− 9	+32 46 48.98	+17.614	− 19
836	ζ Cephei	3.4	K	22 8 2.495	+2.0781	+ 14	+57 48 5.68	+17.707	+ 6
837	24 Cephei	4.8	K	22 8 15.215	+1.1579	+ 54	+71 56 31.21	+17.717	+ 8
838	[λ Pisc.austr.]	5.4	A	22 9 43.508	+3.4055	+ 16	−28 10 8.25	+17.768	− 1
839	[ε Octantis]	5.3	M b	22 11 1.091	+6.8821	+ 137	−80 50 37.78	+17.781	− 40
840	ϑ Aquarii	4.2	K	22 12 33.647	+3.1672	+ 76	− 8 11 13.63	+17.864	− 19

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
				h m s	s		° ′ ″	″	
841	α Tucanae	2.8	K 2	22 12 57.889	+4.1335	— 98	—60 39 50.34	+17.850	— 49
842	γ Aquarii	3.7	A	22 17 28.388	+3.0991	+ 83	— 1 47 45.73	+18.079	+ 7
843	[31 Pegasi]	4.9	B 3 p	22 17 31.811	+2.9519	— 1	+11 47 47.76	+18.084	+ 9
844	3 Lacertae	4.5	K	22 20 22.305	+2.3554	— 15	+51 49 22.03	+17.990	—191
845	[ν Gruis]	5.6	K	22 23 54.614	+3.5242	+ 24	—39 32 31.59	+18.148	—162
846	[δ¹ Gruis]	4.0	G 5	22 24 26.017	+3.5954	+ 17	—43 54 35.71	+18.320	— 8
847	[δ Cephei]	(4.1)	G	22 26 9.613	+2.2230	+ 17	+58 0 0.84	+18.391	+ 2
848	7 Lacertae	3.8	A	22 27 57.080	+2.4677	+ 147	+49 51 56.37	+18.467	+ 16
849	[υ Aquarii]	5.5	F	22 30 15.949	+3.2852	+ 155	—21 7 24.91	+18.385	—144
850	η Aquarii	3.9	B 8	22 31 11.677	+3.0833	+ 59	— 0 32 7.63	+18.504	— 55
851	[31 Cephei]	5.2	F	22 33 46.067	+1.4822	+ 382	+73 13 20.88	+18.666	+ 23
852	10 Lacertae	4.9	Oe 5	22 35 37.446	+2.6888	+ 4	+38 37 41.88	+18.696	— 6
853	[30 Cephei]	5.3	A 2	22 35 46.462	+2.1238	+ 1	+63 9 47.20	+18.685	— 22
854	[ε Pisc.austr.]	4.0	B 8	22 36 10.698	+3.3223	+ 12	—27 27 59.20	+18.722	+ 2
855	ζ Pegasi	3.3	B 8	22 37 25.299	+2.9915	+ 53	+10 24 29.15	+18.745	— 13
856	β Gruis	2.0	M b	22 37 50.149	+3.5927	+ 117	—47 18 31.60	+18.746	— 25
857	η Pegasi	2.9	G	22 39 12.180	+2.8097	+ 12	+29 47 49.75	+18.780	— 33
858	[13 Lacertae]	5.4	K	22 40 28.545	+2.6715	— 6	+41 23 37.66	+18.856	+ 5
859	λ Pegasi	3.9	K	22 42 37.666	+2.8876	+ 41	+23 8 20.42	+18.904	— 10
860	ε Gruis	3.5	A 2	22 43 40.098	+3.6364	+ 96	—51 44 35.67	+18.871	— 73
861	[τ Aquarii]	4.0	K 5	22 45 18.293	+3.1783	— 12	—14 1 13.71	+18.957	— 33
862	[μ Pegasi]	3.6	K	22 46 5.516	+2.8935	+ 109	+24 10 24.70	+18.971	— 41
863	ι Cephei	3.5	K	22 46 47.534	+2.1286	— 114	+65 46 26.87	+18.909	—123
864	λ Aquarii	3.8	M a	22 48 23.384	+3.1310	+ 5	— 8 0 39.52	+19.113	+ 38
865	ρ Jndi	6.3	G	22 49 2.557	+4.2128	— 101	—70 30 24.53	+19.155	+ 62
866	δ Aquarii	3.2	A 2	22 50 21.187	+3.1859	— 33	—16 15 6.86	+19.108	— 19
867	α Pisc. austr.	1.2	A 3	22 53 10.653	+3.3196	+ 247	—30 3 6.52	+19.040	—159
868	[ζ Gruis]	4.0	G 5	22 56 6.302	+3.5560	— 80	—53 11 19.88	+19.256	— 16
869	ο Androm.	3.5	B 3	22 58 11.448	+2.7558	+ 25	+41 53 25.04	+19.308	— 13
870	β Pegasi	2.4	M b	22 59 50.711	+2.9056	+ 145	+27 38 35.21	+19.496	+138
871	α Pegasi	2.4	A	23 0 43.478	+2.9867	+ 41	+14 46 8.86	+19.336	— 41
872	ϑ Gruis	4.2	F 5	23 2 19.239	+3.3884	— 52	—43 57 29.86	+19.376	— 38
873	c³ Aquarii	3.7	K	23 5 7.786	+3.2015	+ 32	—21 36 44.41	+19.510	+ 36
874	π Cephei	4.5	G 5	23 5 19.024	+1.9010	+ 29	+74 56 58.07	+19.452	— 25
875	Br. 3077	5.8	K	23 9 22.576	+2.8794	+2528	+56 43 15.21	+19.854	+295
876	[Tucanae 25 G.]	5.9	F	23 12 6.041	+3.6272	+ 231	—62 26 35.42	+19.556	— 53
877	γ Tucanae	3.9	F 2	23 12 42.582	+3.5168	— 59	—58 40 48.10	+19.702	+ 82
878	[γ Piscium]	3.7	K	23 12 57.951	+3.1095	+ 503	+ 2 50 21.92	+19.643	+ 18
879	γ Sculptoris	4.4	K	23 14 27.202	+3.2449	+ 10	—32 58 24.70	+19.583	— 68
880	τ Pegasi	4.5	A 5	23 16 37.532	+2.9665	+ 21	+23 17 48.09	+19.674	— 13

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
882	4 Cassiopeiae	5.5	M a p	23h 21m 13s.958	+2s.6541	+ 17	+61° 50′ 16″.49	+19″.749	− 10
881	[υ Pegasi]	4.4	G	23 21 20.058	+2.9914	+138	+22 57 28.62	+19.796	+ 35
883	[ο Gruis]	5.7	F	23 22 4.853	+3.3662	− 4	−53 10 12.79	+19.890	+119
884	ϰ Piscium	5.1	A 2	23 22 46.802	+3.0753	+ 56	+ 0 48 43.11	+19.689	− 93
885	70 Pegasi	4.7	K	23 25 3.402	+3.0322	+ 38	+12 18 48.43	+19.841	+ 28
886	[β Sculptoris]	4.4	B 9	23 28 37.869	+3.2230	+ 65	−38 15 59.26	+19.872	+ 14
887	[72 Pegasi]	5.2	K	23 29 55.882	+2.9722	+ 40	+30 52 41.24	+19.861	− 12
888	[Aquarii 248 G.]	6.7	A	23 31 21.401	+3.0954	− 5	− 7 54 46.26	+19.912	+ 23
889	[Phoenicis 11 G.]	4.6	A 2	23 33 29.598	+3.2368	+ 47	−45 56 27.45	+19.874	− 37
890	[λ Androm.]	3.8	K	23 33 35.654	+2.9290	+156	+46 1 8.86	+19.489	−423
891	ι Androm.	4.1	B 8	23 34 9.531	+2.9360	+ 27	+42 49 10.03	+19.913	− 5
892	ι Piscium	4.1	F 5	23 35 46.990	+3.0846	+247	+ 5 11 13.44	+19.494	−440
893	γ Cephei	3.3	K	23 36 0.665	+2.4409	−183	+77 10 48.88	+20.093	+157
894	ω² Aquarii	4.5	A	23 38 31.383	+3.1126	+ 65	−14 59 34.36	+19.895	− 63
895	41 H. Cephei	5.2	A	23 44 1.637	+2.8519	+ 23	+67 21 24.14	+19.998	+ 1
896	Lac. δ Sculpt.	4.4	A	23 44 42.536	+3.1283	+ 71	−28 34 41.98	+19.896	−105
897	[Aquarii 268 G.]	6.3	A	23 46 3.957	+3.0962	+ 86	−10 25 34.75	+20.095	+ 86
898	φ Pegasi	5.4	M a	23 48 21.885	+3.0490	− 8	+18 40 13.21	+19.980	− 39
899	[ρ Cassiopeiae]	4.8	F 8 p	23 50 19.719	+2.9850	− 7	+57 2 55.40	+20.031	+ 4
900	[27 Piscium]	5.1	F	23 54 31.566	+3.0712	− 37	− 4 0 19.42	+19.971	− 68
901	[π Phoenicis]	5.2	K	23 54 44.149	+3.1166	+ 30	−53 11 54.62	+20.086	+ 46
902	ω Piscium	3.9	F 5	23 55 9.041	+3.0795	+100	+ 6 24 53.46	+19.932	−109
903	ε Tucanae	4.5	B 9	23 55 42.947	+3.1353	+ 64	−66 1 40.18	+20.009	− 33
904	[ϑ Octantis]	5.0	K	23 57 26.948	+3.1179	−220	−77 30 46.46	+19.873	−171
905	[2 Ceti]	4.5	A	23 59 35.479	+3.0746	+ 12	−17 47 12.80	+20.042	− 4

[1]) Nr. 257. Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach Auwers A. N. 3085 (vergl. Neuer Fundamental-Katalog, Seite 98):

1919.0: $\Delta\alpha = -0^s.232$ $\Delta\delta = -1''.32$
1920.0: $= -0.230$ $= -1.44$

[2]) Nr. 287. Rektaszension der Mitte, Deklination des folgenden helleren Sterns

[3]) Nr. 291. Ort des Schwerpunkts. Die Reduktion auf den Ort des hellen Sterns beträgt nach Auwers A. N. 3929 (vergl. Neuer Fundamental-Katalog, Seite 98):

1919.0: $\Delta\alpha = -0^s.052$ $\Delta\delta = +0''.15$
1920.0: $= -0.046$ $= +0.27$

[4]) Nr. 538. Schwerpunkt des Systems. Abstände vom Schwerpunkt nach See M. N. Dez. 1893 (vergl. Neuer Fundamental-Katalog, Seite 99):

heller Stern 1919.0: $\Delta\alpha = +0^s.620$ $\Delta\delta = +5''.41$
1920.0: $= +0.605$ $= +5.10$
Begleiter 1919.0: $\Delta\alpha = -0^s.729$ $\Delta\delta = -6''.36$
1920.0: $= -0.712$ $= -6.01$

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001

Nördliche Polsterne

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
				h m s	s		° ′ ″	″	
Na	43 H. Cephei	4.3	K	0 57 24.68	+ 7.684	+ 74	+85 49 24.00	+19.418	— 1
Nb	α Ursae min.	2.0	F 8	1 31 11.69	+29.525	+145	+88 52 20.44	+18.480	+ 2
Nc	Gr. 750	6.8	F	4 10 37.90	+17.655	+ 16	+85 20 28.27	+ 9.239	+ 32
Nd	51 H. Cephei	5.2	M a	7 3 2.74	+29.120	— 51	+87 10 43.58	— 5.481	— 36
Ne	1 H. Dracon.	4.3	K	9 25 39.24	+ 8.770	— 6	+81 41 10.18	—15.689	— 20
Nf	[30 H. Camel.]	5.2	F 5	10 21 19.84	+ 7.550	— 47	+82 58 18.37	—18.185	+ 31
Ng	ε Ursae min.	4.2	G 5	16 54 13.04	— 6.243	+ 7	+82 10 21.67	— 5.669	+ 6
Nh	δ Ursae min.	4.3	A	17 58 22.32	—19.498	+ 16	+86 36 51.29	— 0.086	+ 57
Ni	λ Ursae min.	6.8	M a	19 0 15.50	—72.479	— 95	+89 1 12.93	+ 5.218	+ 8
Nk	76 Draconis	6.0	A	20 48 32.24	— 4.176	+ 16	+82 13 56.93	+13.475	+ 27

Südliche Polsterne

Nr.	Name	Gr.	Spektrum	AR. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.001	Dekl. 1919.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
				h m s	s		° ′ ″	″	
Sa	Octantis 4 G.	6	K	1 41 55.21	— 3.725	+ 18	—85 10 45.01	+18.130	+ 34
Sb	[ξ Mensae]	6.0	K	5 8 2.51	— 6.931	— 4	—82 34 50.63	+ 4.520	+ 14
Sc	ζ Octantis	6—5	F 5	9 8 42.59	— 8.166	— 93	—85 20 26.60	—14.655	+ 48
Sd	ι Octantis	6—5	K	12 46 19.33	+ 5.997	+ 42	—84 41 1.67	—19.612	+ 25
Se	Octantis 20 G.	7	M a	14 47 2.79	+26.297	—182	—87 49 20.34	—15.020	— 67
Sf	Octantis 26 G.	6—7	A 2	16 30 24.20	+21.780	+ 5	—86 13 13.41	— 7.640	— 2
Sg	γ Octantis	6	K 5	18 7 23.65	+35.725	— 92	—87 39 50.91	+ 0.519	—128
Sh	σ Octantis	6	A 8	19 30 51.33	+93.772	+113	—89 13 13.35	+ 7.739	— 1
Si	β Octantis	4.1	F	22 37 51.85	+ 6.302	— 26	—81 48 24.84	+18.774	+ 3
Sk	τ Octantis	6	K	23 16 29.22	+10.063	+ 21	—87 55 38.97	+19.700	+ 15

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden

Mittlere Zeit Greenw.	1) α Andromedae AR.		1) α Andromedae Dekl.		2) β Cassiopeiae AR.		2) β Cassiopeiae Dekl.		3) ε Phoenicis AR.		3) ε Phoenicis Dekl.		7) γ Pegasi AR.		7) γ Pegasi Dekl.	
1919	$0^h\ 4^m$		+28° 38′		$0^h\ 4^m$		+58° 42′		$0^h\ 5^m$		−46° 11′		$0^h\ 9^m$		+14° 43′	
Jan. 0.2	12.774 s	139	50.91″	93	51.820 s	307	34.08″	74	18.718 s	206	49.03″	32	4.687 s	117	70.03″	85
10.2	12.635	133	49.98	120	51.513	296	33.34	126	18.512	190	48.71	77	4.570	113	69.18	97
20.2	12.502	121	48.78	140	51.217	272	32.08	172	18.322	169	47.94	122	4.457	103	68.21	104
30.1	12.381	104	47.38	156	50.945	236	30.36	213	18.153	143	46.72	162	4.354	89	67.17	107
Feb. 9.1	12.277	79	45.82	164	50.709	188	28.23	243	18.010	110	45.10	199	4.265	68	66.10	105
19.1	12.198	48	44.18	166	50.521	128	25.80	265	17.900	73	43.11	231	4.197	41	65.05	97
März 1.1	12.150	12	42.52	159	50.393	60	23.15	274	17.827	31	40.80	258	4.156	11	64.08	84
11.0	12.138	$\overline{29}$	40.93	145	50.333	$\overline{15}$	20.41	273	17.796	$\overline{15}$	38.22	281	4.145	$\overline{26}$	63.24	67
21.0	12.167	75	39.48	124	50.348	94	17.68	259	17.811	64	35.41	296	4.171	65	62.57	43
31.0	12.242	120	38.24	96	50.442	173	15.09	237	17.875	116	32.45	306	4.236	107	62.14	17
Apr. 10.0	12.362	167	37.28	63	50.615	251	12.72	204	17.991	167	29.39	311	4.343	149	61.97	$\overline{14}$
19.9	12.529	211	36.65	26	50.866	321	10.68	163	18.158	217	26.28	308	4.492	190	62.11	45
29.9	12.740	252	36.39	$\overline{12}$	51.187	385	9.05	117	18.375	265	23.20	299	4.682	227	62.56	76
Mai 9.9	12.992	286	36.51	52	51.572	436	7.88	67	18.640	307	20.21	283	4.909	260	63.32	107
19.8	13.278	313	37.03	90	52.008	476	7.21	14	18.947	344	17.38	260	5.169	287	64.39	135
29.8	13.591	331	37.93	126	52.484	502	7.07	$\overline{39}$	19.291	371	14.78	232	5.456	305	65.74	160
Juni 8.8	13.922	342	39.19	159	52.986	515	7.46	91	19.662	389	12.46	197	5.761	318	67.34	182
18.8	14.264	343	40.78	188	53.501	514	8.37	139	20.051	399	10.49	159	6.079	320	69.16	197
28.7	14.607	336	42.66	210	54.015	500	9.76	186	20.450	395	8.90	114	6.399	314	71.13	207
Juli 8.7	14.943	319	44.76	229	54.515	472	11.62	226	20.845	382	7.76	69	6.713	300	73.20	213
18.7	15.262	295	47.05	241	54.987	435	13.88	260	21.227	359	7.07	20	7.013	280	75.33	213
28.7	15.557	265	49.46	247	55.422	389	16.48	290	21.586	325	6.87	$\overline{27}$	7.293	252	77.46	209
Aug. 7.6	15.822	230	51.93	249	55.811	335	19.38	311	21.911	284	7.14	73	7.545	221	79.55	198
17.6	16.052	191	54.42	244	56.146	277	22.49	328	22.195	235	7.87	118	7.766	185	81.53	185
27.6	16.243	151	56.86	235	56.423	213	25.77	336	22.430	181	9.05	157	7.951	147	83.38	168
Sept. 6.5	16.394	109	59.21	222	56.636	150	29.13	338	22.611	124	10.62	188	8.098	109	85.06	148
16.5	16.503	68	61.43	205	56.786	85	32.51	334	22.735	67	12.50	214	8.207	71	86.54	127
26.5	16.571	30	63.48	184	56.871	23	35.85	321	22.802	10	14.64	230	8.278	35	87.81	104
Okt. 6.5	16.601	$\overline{5}$	65.32	161	56.894	$\overline{36}$	39.06	303	22.812	$\overline{42}$	16.94	237	8.313	3	88.85	82
16.4	16.596	37	66.93	135	56.858	92	42.09	278	22.770	90	19.31	234	8.316	$\overline{27}$	89.67	59
26.4	16.559	65	68.28	108	56.766	144	44.87	246	22.680	131	21.65	221	8.289	52	90.26	36
Nov. 5.4	16.494	88	69.36	79	56.622	190	47.33	209	22.549	165	23.86	199	8.237	74	90.62	15
15.4	16.406	107	70.15	47	56.432	230	49.42	166	22.384	190	25.85	170	8.163	90	90.77	$\overline{6}$
25.3	16.299	123	70.62	16	56.202	263	51.08	117	22.194	208	27.55	132	8.073	103	90.71	27
Dez. 5.3	16.176	135	70.78	$\overline{16}$	55.939	290	52.25	66	21.986	217	28.87	91	7.970	113	90.44	45
15.3	16.041	141	70.62	47	55.649	306	52.91	13	21.769	219	29.78	47	7.857	120	89.99	64
25.2	15.900	144	70.15	79	55.343	312	53.04	$\overline{43}$	21.550	214	30.25	$\overline{1}$	7.737	122	89.35	78
35.2	15.756		69.36		55.031		52.61		21.336		30.24		7.615		88.57	
Mittl. Ort	11.821		35.73		50.742		10.83		18.179		40.10		3.749		59.58	
sec δ, tg δ	1.139		+0.546		1.925		+1.645		1.445		−1.043		1.034		+0.263	

Mittlere Zeit Greenw.	9) ι Ceti				10) ζ Tucanae				11) β Hydri				12) α Phoenicis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$0^h\ 15^m$		$-9°\ 15'$		$0^h\ 15^m$		$-65°\ 20'$		$0^h\ 21^m$		$-77°\ 42'$		$0^h\ 22^m$		$-42°\ 44'$	
Jan. 0.2	$18^s.932$	114	80″.67	58	$51^s.73$	41	75″.84	76	$30^s.50$	92	51″.30	98	$17^s.636$	196	53″.99	5
10.2	18.818	110	81.25	43	51.32	38	75.08	132	29.58	87	50.32	158	17.440	185	53.94	50
20.2	18.708	101	81.68	26	50.94	36	73.76	183	28.71	79	48.74	211	17.255	170	53.44	93
30.2	18.607	87	81.94	8	50.58	30	71.93	231	27.92	68	46.63	260	17.085	148	52.51	135
Feb. 9.1	18.520	68	82.02	11	50.28	24	69.62	271	27.24	57	44.03	299	16.937	121	51.16	173
19.1	18.452	44	81.91	33	50.04	18	66.91	305	26.67	44	41.04	333	16.816	88	49.43	206
März 1.1	18.408	16	81.58	56	49.86	11	63.86	332	26.23	29	37.71	358	16.728	50	47.37	236
11.0	18.392	18	81.02	79	49.75	4	60.54	351	25.94	15	34.13	373	16.678	8	45.01	261
21.0	18.410	55	80.23	102	49.71	5	57.03	363	25.79	1	30.40	382	16.670	39	42.40	281
31.0	18.465	95	79.21	126	49.76	13	53.40	366	25.80	17	26.58	381	16.709	88	39.59	294
Apr. 10.0	18.560	134	77.95	149	49.89	20	49.74	362	25.97	32	22.77	372	16.797	139	36.65	302
19.9	18.694	175	76.46	168	50.09	29	46.12	350	26.29	47	19.05	356	16.936	188	33.63	305
29.9	18.869	211	74.78	185	50.38	37	42.62	331	26.76	62	15.49	331	17.124	236	30.58	299
Mai 9.9	19.080	245	72.93	198	50.75	43	39.31	305	27.38	74	12.18	300	17.360	279	27.59	288
19.9	19.325	272	70.95	207	51.18	49	36.26	271	28.12	85	9.18	261	17.639	316	24.71	270
29.8	19.597	294	68.88	211	51.67	54	33.55	232	28.97	95	6.57	218	17.955	345	22.01	245
Juni 8.8	19.891	307	66.77	209	52.21	57	31.23	186	29.92	101	4.39	168	18.300	367	19.56	214
18.8	20.198	312	64.68	202	52.78	59	29.37	137	30.93	106	2.71	115	18.667	378	17.42	179
28.7	20.510	309	62.66	189	53.37	60	28.00	84	31.99	107	1.56	59	19.045	379	15.63	137
Juli 8.7	20.819	299	60.77	172	53.97	58	27.16	29	33.06	105	0.97	1	19.424	371	14.26	93
18.7	21.118	281	59.05	150	54.55	56	26.87	27	34.11	101	0.96	56	19.795	350	13.33	46
28.7	21.399	255	57.55	125	55.11	50	27.14	82	35.12	93	1.52	113	20.145	322	12.87	1
Aug. 7.6	21.654	224	56.30	97	55.61	45	27.96	132	36.05	82	2.65	164	20.467	286	12.88	48
17.6	21.878	190	55.33	68	56.06	37	29.28	180	36.87	70	4.29	211	20.753	242	13.36	93
27.6	22.068	152	54.65	38	56.43	29	31.08	221	37.57	53	6.40	251	20.995	193	14.29	135
Sept. 6.6	22.220	113	54.27	9	56.72	20	33.29	253	38.10	37	8.91	281	21.188	142	15.64	170
16.5	22.333	75	54.18	17	56.92	11	35.82	276	38.47	18	11.72	302	21.330	88	17.34	198
26.5	22.408	38	54.35	41	57.03	0	38.58	288	38.65	1	14.74	311	21.418	35	19.32	219
Okt. 6.5	22.446	4	54.76	61	57.03	8	41.46	289	38.64	19	17.85	309	21.453	15	21.51	230
16.4	22.450	27	55.37	76	56.95	17	44.35	278	38.45	38	20.94	293	21.438	60	23.81	232
26.4	22.423	52	56.13	88	56.78	25	47.13	257	38.07	54	23.87	266	21.378	100	26.13	224
Nov. 5.4	22.371	73	57.01	94	56.53	31	49.70	224	37.53	67	26.53	229	21.278	135	28.37	207
15.4	22.298	91	57.95	96	56.22	37	51.94	182	36.86	79	28.82	181	21.143	161	30.44	182
25.3	22.207	104	58.91	93	55.85	40	53.76	133	36.07	88	30.63	127	20.982	182	32.26	149
Dez. 5.3	22.103	112	59.84	87	55.45	43	55.09	79	35.19	93	31.90	67	20.800	194	33.75	112
15.3	21.991	118	60.71	79	55.02	43	55.88	21	34.26	95	32.57	5	20.606	201	34.87	69
25.3	21.873	119	61.50	68	54.59	43	56.09	38	33.31	95	32.62	58	20.405	200	35.56	25
35.2	21.754		62.18		54.16		55.71		32.36		32.04		20.205		35.81	
Mittl. Ort	18.058		82.55		51.52		63.22		31.04		37.43		16.948		45.52	
sec δ, tg δ	1.013		−0.163		2.398		−2.179		4.698		−4.591		1.362		−0.924	

Mittlere Zeit Greenw.	13) 12 Ceti AR.		13) 12 Ceti Dekl.		17) ζ Cassiopeiae AR.		17) ζ Cassiopeiae Dekl.		18) π Andromedae AR.		18) π Andromedae Dekl.		20) δ Andromedae AR.		20) δ Andromedae Dekl.	
1919	$0^h 25^m$		$-4° 23'$		$0^h 32^m$		$+53° 27'$		$0^h 32^m$		$+33° 16'$		$0^h 34^m$		$+30° 25'$	
Jan. 0.2	55.263	114	73.84	66	28.359	257	26.41	49	34.204	154	41.25	72	60.725	146	19.98	72
10.2	55.149	112	74.50	56	28.102	256	25.92	98	34.050	154	40.53	101	60.579	147	19.26	99
20.2	55.037	105	75.06	44	27.846	245	24.94	142	33.896	148	39.52	129	60.432	141	18.27	123
30.2	54.932	93	75.50	30	27.601	222	23.52	182	33.748	133	38.23	150	60.291	128	17.04	143
Feb. 9.1	54.839	75	75.80	13	27.379	187	21.70	213	33.615	112	36.73	166	60.163	108	15.61	155
19.1	54.764	53	75.93	6	27.192	143	19.57	236	33.503	83	35.07	173	60.055	80	14.06	162
März 1.1	54.711	25	75.87	26	27.049	87	17.21	248	33.420	47	33.34	174	59.975	46	12.44	160
11.1	54.686	8	75.61	49	26.962	25	14.73	250	33.373	5	31.60	166	59.929	6	10.84	151
21.0	54.694	45	75.12	72	26.937	43	12.23	242	33.368	44	29.94	149	59.923	41	9.33	135
31.0	54.739	84	74.40	97	26.980	113	9.81	224	33.412	93	28.45	127	59.964	88	7.98	111
Apr. 10.0	54.823	125	73.43	120	27.093	184	7.57	195	33.505	143	27.18	97	60.052	138	6.87	83
19.9	54.948	166	72.23	143	27.277	251	5.62	161	33.648	192	26.21	63	60.190	185	6.04	49
29.9	55.114	203	70.80	164	27.528	312	4.01	119	33.840	238	25.58	26	60.375	230	5.55	13
Mai 9.9	55.317	238	69.16	180	27.840	364	2.82	73	34.078	277	25.32	14	60.605	269	5.42	24
19.9	55.555	266	67.36	194	28.204	407	2.09	25	34.355	311	25.46	53	60.874	302	5.66	63
29.8	55.821	289	65.42	202	28.611	438	1.84	24	34.666	335	25.99	91	61.176	327	6.29	99
Juni 8.8	56.110	304	63.40	205	29.049	458	2.08	72	35.001	351	26.90	128	61.503	342	7.28	133
18.8	56.414	310	61.35	202	29.507	464	2.80	119	35.352	358	28.18	160	61.845	350	8.61	163
28.8	56.724	309	59.33	196	29.971	460	3.99	162	35.710	354	29.78	188	62.195	346	10.24	188
Juli 8.7	57.033	299	57.37	182	30.431	443	5.61	201	36.064	343	31.66	211	62.541	336	12.12	210
18.7	57.332	283	55.55	166	30.874	416	7.62	235	36.407	322	33.77	230	62.877	318	14.22	225
28.7	57.615	259	53.89	144	31.290	382	9.97	263	36.729	296	36.07	242	63.195	291	16.47	235
Aug. 7.6	57.874	230	52.45	119	31.672	338	12.60	285	37.025	263	38.49	248	63.486	260	18.82	239
17.6	58.104	196	51.26	94	32.010	291	15.45	301	37.288	227	40.97	250	63.746	224	21.21	240
27.6	58.300	160	50.32	65	32.301	238	18.46	311	37.515	187	43.47	246	63.970	187	23.61	233
Sept. 6.6	58.460	123	49.67	38	32.539	185	21.57	314	37.702	146	45.93	238	64.157	146	25.94	224
16.5	58.583	86	49.29	12	32.724	129	24.71	311	37.848	105	48.31	225	64.303	106	28.18	210
26.5	58.669	50	49.17	13	32.853	75	27.82	303	37.953	66	50.56	208	64.409	68	30.28	193
Okt. 6.5	58.719	16	49.30	33	32.928	23	30.85	286	38.019	28	52.64	189	64.477	31	32.21	173
16.5	58.735	14	49.63	52	32.951	27	33.71	266	38.047	7	54.53	166	64.508	2	33.94	150
26.4	58.721	40	50.15	65	32.924	74	36.37	239	38.040	38	56.19	140	64.506	33	35.44	124
Nov. 5.4	58.681	62	50.80	75	32.850	118	38.76	207	38.002	67	57.59	111	64.473	61	36.68	98
15.4	58.619	81	51.55	82	32.732	157	40.83	168	37.935	93	58.70	81	64.412	86	37.66	69
25.3	58.538	95	52.37	83	32.575	191	42.51	127	37.842	113	59.51	49	64.326	106	38.35	39
Dez. 5.3	58.443	106	53.20	83	32.384	221	43.78	79	37.729	132	60.00	15	64.220	124	38.74	7
15.3	58.337	114	54.03	79	32.163	242	44.57	31	37.597	146	60.15	19	64.096	137	38.81	25
25.3	58.223	117	54.82	73	31.921	257	44.88	20	37.451	155	59.96	54	63.959	147	38.56	55
35.2	58.106		55.55		31.664		44.68		37.296		59.42		63.812		38.01	
Mittl. Ort	54.305		77.23		26.964		4.63		33.000		24.99		59.521		4.67	
sec δ, tg δ	1.003		−0.077		1.679		+1.349		1.196		+0.656		1.160		+0.587	

Mittlere Zeit Greenw.	21) α Cassiopeiae AR.	Δ	Dekl.	Δ	22) β Ceti AR.	Δ	Dekl.	Δ	25) o Cassiopeiae AR.	Δ	Dekl.	Δ	24) 21 Cassiopeiae AR.	Δ	Dekl.	Δ
1919	0h 35m		+56° 5′		0h 39m		−18° 25′		0h 40m		+47° 50′		0h 40m		+74° 32′	
Jan. 0.2	55.494	280	58.22	41	32.419	130	53.44	53	13.640	216	48.67	48	18.53	70	69.17	1
10.2	55.214	281	57.81	92	32.289	127	53.97	29	13.424	218	48.19	93	17.83	70	69.18	61
20.2	54.933	270	56.89	138	32.162	122	54.26	2	13.206	210	47.26	134	17.13	67	68.57	120
30.2	54.663	245	55.51	181	32.040	110	54.28	25	12.996	194	45.92	169	16.46	61	67.37	174
Feb. 9.1	54.418	209	53.70	214	31.930	93	54.03	51	12.802	165	44.23	197	15.85	53	65.63	221
19.1	54.209	161	51.56	239	31.837	72	53.52	79	12.637	128	42.26	217	15.32	42	63.42	258
März 1.1	54.048	103	49.17	254	31.765	43	52.73	105	12.509	82	40.09	227	14.90	29	60.84	285
11.1	53.945	35	46.63	259	31.722	10	51.68	131	12.427	27	37.82	229	14.61	14	57.99	300
21.0	53.910	37	44.04	251	31.712	27	50.37	155	12.400	33	35.53	219	14.47	1	54.99	301
31.0	53.947	112	41.53	235	31.739	68	48.82	177	12.433	95	33.34	200	14.48	16	51.98	292
Apr. 10.0	54.059	188	39.18	208	31.807	110	47.05	197	12.528	158	31.34	174	14.64	32	49.06	272
19.9	54.247	259	37.10	174	31.917	152	45.08	213	12.686	219	29.60	140	14.96	46	46.34	241
29.9	54.506	324	35.36	133	32.069	192	42.95	225	12.905	275	28.20	100	15.42	59	43.93	202
Mai 9.9	54.830	381	34.03	87	32.261	230	40.70	233	13.180	324	27.20	57	16.01	71	41.91	156
19.9	55.211	426	33.16	38	32.491	263	38.37	235	13.504	365	26.63	11	16.72	78	40.35	105
29.8	55.637	461	32.78	11	32.754	287	36.02	232	13.869	395	26.52	34	17.50	87	39.30	52
Juni 8.8	56.098	481	32.89	61	33.041	306	33.70	222	14.264	414	26.86	81	18.37	90	38.78	4
18.8	56.579	490	33.50	109	33.347	317	31.48	207	14.678	424	27.67	123	19.27	92	38.82	58
28.8	57.069	486	34.59	153	33.664	319	29.41	187	15.102	420	28.90	162	20.19	91	39.40	112
Juli 8.7	57.555	469	36.12	195	33.983	311	27.54	162	15.522	408	30.52	198	21.10	89	40.52	161
18.7	58.024	442	38.07	230	34.294	298	25.92	131	15.930	385	32.50	228	21.99	83	42.13	208
28.7	58.466	405	40.37	260	34.592	276	24.61	99	16.315	355	34.78	253	22.82	77	44.21	249
Aug. 7.6	58.871	361	42.97	285	34.868	248	23.62	65	16.670	318	37.31	271	23.59	68	46.70	284
17.6	59.232	311	45.82	303	35.116	215	22.97	28	16.988	276	40.02	285	24.27	60	49.54	315
27.6	59.543	257	48.85	315	35.331	177	22.69	7	17.264	229	42.87	292	24.87	49	52.69	337
Sept. 6.6	59.800	200	52.00	320	35.508	140	22.76	40	17.493	181	45.79	293	25.36	37	56.06	353
16.5	60.000	142	55.20	320	35.648	100	23.16	71	17.674	132	48.72	288	25.73	26	59.59	362
26.5	60.142	84	58.40	311	35.748	61	23.87	96	17.806	85	51.60	278	25.99	15	63.21	364
Okt. 6.5	60.226	28	61.51	298	35.809	25	24.83	116	17.891	38	54.38	263	26.14	2	66.85	357
16.5	60.254	26	64.49	278	35.834	9	25.99	131	17.929	7	57.01	242	26.16	10	70.42	343
26.4	60.228	77	67.27	252	35.825	38	27.30	139	17.922	48	59.43	216	26.06	21	73.85	320
Nov. 5.4	60.151	124	69.79	219	35.787	63	28.69	139	17.874	87	61.59	185	25.85	33	77.05	290
15.4	60.027	168	71.98	182	35.724	86	30.08	136	17.787	122	63.44	150	25.52	42	79.95	252
25.3	59.859	206	73.80	139	35.638	103	31.44	125	17.665	153	64.94	111	25.10	52	82.47	207
Dez. 5.3	59.653	238	75.19	92	35.535	116	32.69	110	17.512	179	66.05	69	24.58	59	84.54	155
15.3	59.415	263	76.11	41	35.419	125	33.79	92	17.333	201	66.74	23	23.99	66	86.09	97
25.3	59.152	280	76.52	10	35.294	131	34.71	69	17.132	214	66.97	22	23.33	70	87.06	38
35.2	58.872		76.42		35.163		35.40		16.918		66.75		22.63		87.44	
Mittl. Ort	54.015		35.91		31.455		51.76		12.229		28.42		16.29		43.84	
sec δ, tg δ	1.793		+1.488		1.054		−0.333		1.490		+1.104		3.753		+3.617	

Mittlere Zeit Greenw.	27) ζ Andromedae AR.		Dekl.		32) γ Cassiopeiae AR.		Dekl.		33) μ Andromedae AR.		Dekl.		35) α Sculptoris AR.		Dekl.	
1919	0h 43m		+23° 49′		0h 51m		+60° 16′		0h 52m		+38° 3′		0h 54m		−29° 47′	
	s		″		s		″		s		″		s		″	
Jan. 0.3	3.700	133	49.21	71	50.21	32	64.99	14	16.495	169	54.31	51	43.182	156	47.99	47
10.2	3.567	135	48.50	91	49.89	34	64.85	68	16.326	173	53.80	86	43.026	156	48.46	11
20.2	3.432	131	47.59	109	49.55	32	64.17	119	16.153	171	52.94	118	42.870	151	48.57	25
30.2	3.301	121	46.50	122	49.23	30	62.98	165	15.982	159	51.76	145	42.719	140	48.32	61
Feb. 9.1	3.180	104	45.28	129	48.93	27	61.33	205	15.823	140	50.31	166	42.579	123	47.71	97
19.1	3.076	80	43.99	131	48.66	21	59.28	235	15.683	111	48.65	181	42.456	100	46.74	130
März 1.1	2.996	49	42.68	127	48.45	15	56.93	256	15.572	74	46.84	187	42.356	71	45.44	161
11.1	2.947	11	41.41	116	48.30	7	54.37	266	15.498	30	44.97	184	42.285	36	43.83	189
21.0	2.936	31	40.25	98	48.23	0	51.71	265	15.468	19	43.13	173	42.249	3	41.94	215
31.0	2.967	75	39.27	75	48.23	9	49.06	252	15.487	73	41.40	155	42.252	47	39.79	236
Apr. 10.0	3.042	123	38.52	48	48.32	18	46.54	231	15.560	127	39.85	129	42.299	91	37.43	253
20.0	3.165	168	38.04	17	48.50	26	44.23	200	15.687	181	38.56	97	42.390	138	34.90	265
29.9	3.333	212	37.87	17	48.76	33	42.23	162	15.868	231	37.59	61	42.528	182	32.25	271
Mai 9.9	3.545	250	38.04	51	49.09	40	40.61	118	16.099	276	36.98	22	42.710	224	29.54	273
19.9	3.795	283	38.55	84	49.49	46	39.43	71	16.375	314	36.76	18	42.934	261	26.81	267
29.8	4.078	307	39.39	116	49.95	50	38.72	20	16.689	343	36.94	59	43.195	292	24.14	255
Juni 8.8	4.385	325	40.55	144	50.45	52	38.52	29	17.032	364	37.53	97	43.487	314	21.59	237
18.8	4.710	333	41.99	169	50.97	54	38.81	79	17.396	374	38.50	134	43.801	329	19.22	213
28.8	5.043	333	43.68	189	51.51	54	39.60	127	17.770	374	39.84	166	44.130	335	17.09	183
Juli 8.7	5.376	324	45.57	204	52.05	53	40.87	170	18.144	366	41.50	193	44.465	332	15.26	148
18.7	5.700	307	47.61	214	52.58	50	42.57	210	18.510	349	43.43	217	44.797	320	13.78	110
28.7	6.007	284	49.75	218	53.08	46	44.67	244	18.859	324	45.60	234	45.117	301	12.68	68
Aug. 7.7	6.291	256	51.93	218	53.54	42	47.11	273	19.183	293	47.94	247	45.418	273	12.00	25
17.6	6.547	222	54.11	213	53.96	37	49.84	296	19.476	257	50.41	253	45.691	240	11.75	17
27.6	6.769	186	56.24	203	54.33	32	52.80	313	19.733	218	52.94	255	45.931	202	11.92	60
Sept. 6.6	6.955	148	58.27	190	54.65	25	55.93	323	19.951	178	55.49	252	46.133	162	12.52	97
16.5	7.103	111	60.17	174	54.90	18	59.16	326	20.129	136	58.01	243	46.295	118	13.49	131
26.5	7.214	75	61.91	155	55.08	13	62.42	324	20.265	94	60.44	231	46.413	76	14.80	158
Okt. 6.5	7.289	40	63.46	135	55.21	6	65.66	314	20.359	54	62.75	213	46.489	35	16.38	178
16.5	7.329	7	64.81	113	55.27	0	68.80	298	20.413	18	64.88	194	46.524	4	18.16	191
26.4	7.336	21	65.94	89	55.27	6	71.78	276	20.431	19	66.82	170	46.520	39	20.07	195
Nov. 5.4	7.315	48	66.83	66	55.21	12	74.54	245	20.412	52	68.52	142	46.481	69	22.02	191
15.4	7.267	72	67.49	40	55.09	17	76.99	211	20.360	81	69.94	112	46.412	96	23.93	178
25.4	7.195	92	67.89	16	54.92	22	79.10	168	20.279	108	71.06	79	46.316	118	25.71	160
Dez. 5.3	7.103	109	68.05	9	54.70	26	80.78	122	20.171	133	71.85	44	46.198	135	27.31	134
15.3	6.994	123	67.96	35	54.44	30	82.00	70	20.038	151	72.29	8	46.063	148	28.65	105
25.3	6.871	132	67.61	58	54.14	32	82.70	18	19.887	166	72.37	30	45.915	156	29.70	71
35.2	6.739		67.03		53.82		82.88		19.721		72.07		45.759		30.41	
Mittl. Ort	2.481		36.22		48.42		42.19		15.080		37.03		42.198		42.44	
sec δ, tg δ	1.093		+0.442		2.018		+1.752		1.270		+0.783		1.152		−0.573	

Mittlere Zeit Greenw.	36) ε Piscium AR.		36) ε Piscium Dekl.		38) β Phoenicis AR.		38) β Phoenicis Dekl.		42) β Andromedae AR.		42) β Andromedae Dekl.		45) υ Piscium AR.		45) υ Piscium Dekl.	
1919	$0^h\ 58^m$		$+7°\ 27'$		$1^h\ 2^m$		$-47°\ 8'$		$1^h\ 5^m$		$+35°\ 11'$		$1^h\ 15^m$		$+26°\ 50'$	
Jan. 0.3	45.459	117	22.63	71	29.111	234	79.01	28	12.969	157	45.36	45	2.062	136	32.33	50
10.2	45.342	122	21.92	74	28.877	233	79.29	22	12.812	165	44.91	77	1.926	145	31.83	73
20.2	45.220	120	21.18	74	28.644	225	79.07	71	12.647	165	44.14	106	1.781	147	31.10	94
30.2	45.100	114	20.44	70	28.419	209	78.36	119	12.482	158	43.08	132	1.634	143	30.16	111
Feb. 9.2	44.986	101	19.74	64	28.210	186	77.17	162	12.324	141	41.76	151	1.491	130	29.05	124
19.1	44.885	81	19.10	54	28.024	157	75.55	203	12.183	117	40.25	165	1.361	111	27.81	131
März 1.1	44.804	56	18.56	40	27.867	119	73.52	237	12.066	83	38.60	170	1.250	81	26.50	131
11.1	44.748	24	18.16	22	27.748	76	71.15	268	11.983	42	36.90	169	1.169	45	25.19	126
21.0	44.724	14	17.94	2	27.672	28	68.47	293	11.941	6	35.21	158	1.124	4	23.93	114
31.0	44.738	54	17.92	21	27.644	25	65.54	310	11.947	56	33.63	141	1.120	43	22.79	95
Apr. 10.0	44.792	97	18.13	47	27.669	81	62.44	322	12.003	109	32.22	117	1.163	92	21.84	72
20.0	44.889	141	18.60	73	27.750	136	59.22	328	12.112	162	31.05	88	1.255	140	21.12	44
29.9	45.030	181	19.33	99	27.886	192	55.94	325	12.274	212	30.17	54	1.395	188	20.68	14
Mai 9.9	45.211	220	20.32	123	28.078	243	52.69	317	12.486	257	29.63	17	1.583	231	20.54	20
19.9	45.431	252	21.55	145	28.321	289	49.52	299	12.743	296	29.46	21	1.814	268	20.74	52
29.9	45.683	279	23.00	164	28.610	330	46.53	277	13.039	327	29.67	58	2.082	299	21.26	85
Juni 8.8	45.962	298	24.64	179	28.940	360	43.76	245	13.366	349	30.25	95	2.381	321	22.11	114
18.8	46.260	310	26.43	189	29.300	382	41.31	210	13.715	362	31.20	128	2.702	336	23.25	142
28.8	46.570	312	28.32	193	29.682	394	39.21	167	14.077	365	32.48	158	3.038	341	24.67	164
Juli 8.7	46.882	308	30.25	193	30.076	394	37.54	121	14.442	360	34.06	184	3.379	337	26.31	183
18.7	47.190	296	32.18	188	30.470	384	36.33	70	14.802	345	35.90	205	3.716	326	28.14	197
28.7	47.486	276	34.06	178	30.854	364	35.63	19	15.147	323	37.95	222	4.042	308	30.11	206
Aug. 7.7	47.762	251	35.84	163	31.218	333	35.44	33	15.470	296	40.17	232	4.350	283	32.17	209
17.6	48.013	222	37.47	145	31.551	294	35.77	84	15.766	263	42.49	237	4.633	253	34.26	208
27.6	48.235	189	38.92	125	31.845	249	36.61	131	16.029	226	44.86	238	4.886	221	36.34	204
Sept. 6.6	48.424	156	40.17	103	32.094	198	37.92	173	16.255	188	47.24	234	5.107	186	38.38	194
16.6	48.580	120	41.20	79	32.292	144	39.65	209	16.443	148	49.58	225	5.293	149	40.32	182
26.5	48.700	85	41.99	57	32.436	88	41.74	236	16.591	109	51.83	213	5.442	113	42.14	167
Okt. 6.5	48.785	53	42.56	35	32.524	34	44.10	254	16.700	71	53.96	197	5.555	79	43.81	149
16.5	48.838	22	42.91	14	32.558	20	46.64	263	16.771	34	55.93	178	5.634	44	45.30	130
26.4	48.860	6	43.05	4	32.538	68	49.27	259	16.805	0	57.71	156	5.678	13	46.60	108
Nov. 5.4	48.854	31	43.01	21	32.470	111	51.86	245	16.805	33	59.27	131	5.691	17	47.68	87
15.4	48.823	53	42.80	35	32.359	150	54.31	223	16.772	64	60.58	103	5.674	45	48.55	64
25.4	48.770	74	42.45	47	32.209	180	56.54	191	16.708	90	61.61	73	5.629	70	49.19	39
Dez. 5.3	48.696	90	41.98	57	32.029	205	58.45	152	16.618	115	62.34	41	5.559	95	49.58	14
15.3	48.606	105	41.41	64	31.824	223	59.97	109	16.503	137	62.75	7	5.464	114	49.72	11
25.3	48.501	115	40.77	71	31.601	232	61.06	60	16.366	153	62.82	26	5.350	131	49.61	36
35.3	48.386		40.06		31.369		61.66		16.213		62.56		5.219		49.25	
Mittl. Ort	44.240		15.68		28.197		68.80		11.477		29.29		0.584		19.17	
sec δ, tg δ	1.008		+0.131		1.471		−1.078		1.224		+0.705		1.121		+0.506	

Mittlere Zeit Greenw.	47) ϑ Ceti				48) δ Cassiopeiae				50) η Piscium				51) 40 Cassiopeiae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	1h 19m		−8° 35′		1h 20m		+59° 48′		1h 27m		+14° 55′		1h 31m		+72° 37′	
Jan. 0.3	59.694 s	120	62.69″	77	32.388 s	308	75.03″	18	10.198 s	119	51.80″	61	64.08 s	57	63.62″	63
10.3	59.574	128	63.46	61	32.080	325	75.21	34	10.079	129	51.19	71	63.51	62	64.25	4
20.2	59.446	130	64.07	42	31.755	328	74.87	86	9.950	133	50.48	78	62.89	62	64.29	55
30.2	59.316	126	64.49	24	31.427	317	74.01	134	9.817	132	49.70	82	62.27	60	63.74	113
Feb. 9.2	59.190	116	64.73	2	31.110	289	72.67	175	9.685	123	48.88	85	61.67	55	62.61	164
19.1	59.074	100	64.75	20	30.821	247	70.92	211	9.562	106	48.03	81	61.12	48	60.97	210
März 1.1	58.974	77	64.55	43	30.574	191	68.81	237	9.456	83	47.22	74	60.64	39	58.87	247
11.1	58.897	47	64.12	67	30.383	122	66.44	253	9.373	51	46.48	63	60.25	28	56.40	272
21.1	58.850	12	63.45	91	30.261	45	63.91	257	9.322	14	45.85	46	59.97	14	53.68	287
31.0	58.838	28	62.54	115	30.216	38	61.34	253	9.308	27	45.39	27	59.83	1	50.81	290
Apr. 10.0	58.866	69	61.39	139	30.254	123	58.81	237	9.335	73	45.12	3	59.82	13	47.91	281
20.0	58.935	113	60.00	159	30.377	208	56.44	213	9.408	118	45.09	22	59.95	28	45.10	263
30.0	59.048	156	58.41	179	30.585	287	54.31	179	9.526	163	45.31	49	60.23	41	42.47	235
Mai 9.9	59.204	195	56.62	194	30.872	359	52.52	142	9.689	205	45.80	77	60.64	52	40.12	199
19.9	59.399	231	54.68	205	31.231	421	51.10	98	9.894	241	46.57	102	61.16	63	38.13	156
29.9	59.630	261	52.63	212	31.652	470	50.12	52	10.135	272	47.59	126	61.79	71	36.57	109
Juni 8.8	59.891	285	50.51	213	32.122	508	49.60	3	10.407	295	48.85	146	62.50	78	35.48	59
18.8	60.176	300	48.38	209	32.630	530	49.57	44	10.702	311	50.31	164	63.28	82	34.89	7
28.8	60.476	307	46.29	198	33.160	540	50.01	91	11.013	319	51.95	175	64.10	84	34.82	44
Juli 8.8	60.783	308	44.31	183	33.700	535	50.92	136	11.332	318	53.70	183	64.94	85	35.26	95
18.7	61.091	299	42.48	163	34.235	520	52.28	176	11.650	309	55.53	186	65.79	83	36.21	143
28.7	61.390	284	40.85	138	34.755	493	54.04	212	11.959	294	57.39	184	66.62	79	37.64	186
Aug. 7.7	61.674	262	39.47	110	35.248	455	56.16	243	12.253	274	59.23	177	67.41	74	39.50	227
17.7	61.936	236	38.37	80	35.703	412	58.59	269	12.527	246	61.00	166	68.15	67	41.77	262
27.6	62.172	206	37.57	48	36.115	360	61.28	289	12.773	217	62.66	152	68.82	60	44.39	291
Sept. 6.6	62.378	172	37.09	16	36.475	304	64.17	303	12.990	186	64.18	135	69.42	52	47.30	315
16.6	62.550	137	36.93	14	36.779	247	67.20	312	13.176	151	65.53	116	69.94	42	50.45	332
26.5	62.687	104	37.07	42	37.026	185	70.32	313	13.327	119	66.69	97	70.36	31	53.77	343
Okt. 6.5	62.791	69	37.49	66	37.211	123	73.45	309	13.446	86	67.66	76	70.67	22	57.20	345
16.5	62.860	37	38.15	85	37.334	63	76.54	297	13.532	54	68.42	57	70.89	11	60.65	342
26.5	62.897	7	39.00	101	37.397	1	79.51	281	13.586	25	68.99	37	71.00	0	64.07	330
Nov. 5.4	62.904	20	40.01	110	37.398	59	82.32	256	13.611	4	69.36	20	71.00	11	67.37	310
15.4	62.884	46	41.11	114	37.339	116	84.88	226	13.607	30	69.56	1	70.89	21	70.47	282
25.4	62.838	67	42.25	113	37.223	170	87.14	189	13.577	54	69.57	13	70.68	32	73.29	246
Dez. 5.4	62.771	87	43.38	108	37.053	220	89.03	147	13.523	76	69.44	29	70.36	41	75.75	204
15.3	62.684	104	44.46	99	36.833	263	90.50	100	13.447	96	69.15	43	69.95	49	77.79	153
25.3	62.580	117	45.45	87	36.570	297	91.50	49	13.351	113	68.72	55	69.46	55	79.32	99
35.3	62.463		46.32		36.273		91.99		13.238		68.17		68.91		80.31	
Mittl. Ort	58.448		63.54		30.192		53.26		8.747		42.97		60.70		40.28	
sec δ, tg δ	1.011		−0.151		1.989		+1.719		1.035		+0.266		3.349		+3.196	

Mittlere Zeit Greenw.	52) υ Persei AR.		52) υ Persei Dekl.		54) α Eridani AR.		54) α Eridani Dekl.		55) 43 Cassiopeiae AR.		55) 43 Cassiopeiae Dekl.		57) φ Persei AR.		57) φ Persei Dekl.	
1919	$1^h\ 33^m$		+48° 13′		$1^h\ 34^m$		−57° 38′		$1^h\ 36^m$		+67° 37′		$1^h\ 38^m$		+50° 16′	
Jan. 0.3	$2^s.653$	205	24″.59	4	$43^s.086$	334	65″.37	50	$22^s.10$	43	84″.83	56	$36^s.511$	216	71″.29	15
10.3	2.448	223	24.63	39	42.752	341	65.87	6	21.67	46	85.39	1	36.295	235	71.44	30
20.2	2.225	229	24.24	81	42.411	337	65.81	63	21.21	46	85.38	57	36.060	244	71.14	73
30.2	1.996	226	23.43	119	42.074	324	65.18	116	20.75	46	84.81	111	35.816	241	70.41	115
Feb. 9.2	1.770	211	22.24	154	41.750	301	64.02	166	20.29	42	83.70	161	35.575	227	69.26	150
19.1	1.559	185	20.70	181	41.449	268	62.36	213	19.87	38	82.09	203	35.348	200	67.76	180
März 1.1	1.374	146	18.89	200	41.181	225	60.23	252	19.49	30	80.06	238	35.148	161	65.96	202
11.1	1.228	98	16.89	211	40.956	174	57.71	287	19.19	21	77.68	261	34.987	111	63.94	215
21.1	1.130	40	14.78	212	40.782	115	54.84	315	18.98	11	75.07	275	34.876	53	61.79	220
31.0	1.090	20	12.66	206	40.667	52	51.69	336	18.87	1	72.32	276	34.823	12	59.59	213
Apr. 10.0	1.110	87	10.60	190	40.615	17	48.33	350	18.86	11	69.56	268	34.835	80	57.46	200
20.0	1.197	152	8.70	165	40.632	88	44.83	355	18.97	22	66.88	248	34.915	149	55.46	177
30.0	1.349	215	7.05	135	40.720	157	41.28	354	19.19	32	64.40	220	35.064	214	53.69	147
Mai 9.9	1.564	272	5.70	100	40.877	226	37.74	344	19.51	42	62.20	185	35.278	275	52.22	113
19.9	1.836	324	4.70	60	41.103	288	34.30	326	19.93	51	60.35	143	35.553	329	51.09	74
29.9	2.160	365	4.10	19	41.391	345	31.04	301	20.44	57	58.92	97	35.882	373	50.35	33
Juni 8.9	2.525	397	3.91	23	41.736	392	28.03	268	21.01	63	57.95	48	36.255	407	50.02	11
18.8	2.922	419	4.14	65	42.128	430	25.35	229	21.64	65	57.47	1	36.662	431	50.13	52
28.8	3.341	428	4.79	104	42.558	454	23.06	184	22.29	69	57.48	51	37.093	442	50.65	93
Juli 8.8	3.769	428	5.83	140	43.012	467	21.22	132	22.98	69	57.99	100	37.535	444	51.58	130
18.7	4.197	418	7.23	173	43.479	467	19.90	79	23.67	67	58.99	144	37.979	434	52.88	165
28.7	4.615	398	8.96	201	43.946	453	19.11	21	24.34	64	60.43	187	38.413	416	54.53	195
Aug. 7.7	5.013	372	10.97	225	44.399	426	18.90	35	24.98	60	62.30	224	38.829	389	56.48	221
17.7	5.385	338	13.22	244	44.825	390	19.25	92	25.58	56	64.54	257	39.218	357	58.69	241
27.6	5.723	300	15.66	256	45.215	340	20.17	145	26.14	49	67.11	284	39.575	317	61.10	257
Sept. 6.6	6.023	259	18.22	264	45.555	283	21.62	192	26.63	42	69.95	305	39.892	275	63.67	267
16.6	6.282	214	20.86	267	45.838	219	23.54	235	27.05	35	73.00	320	40.167	230	66.34	271
26.6	6.496	169	23.53	265	46.057	151	25.89	266	27.40	27	76.20	328	40.397	184	69.05	270
Okt. 6.5	6.665	123	26.18	257	46.208	80	28.55	289	27.67	20	79.48	332	40.581	136	71.75	266
16.5	6.788	78	28.75	245	46.288	10	31.44	300	27.87	11	82.80	325	40.717	88	74.41	254
26.5	6.866	33	31.20	227	46.298	58	34.44	300	27.98	2	86.05	313	40.805	41	76.95	238
Nov. 5.4	6.899	11	33.47	205	46.240	121	37.44	287	28.00	6	89.18	293	40.846	6	79.33	217
15.4	6.888	54	35.52	178	46.119	178	40.31	263	27.94	14	92.11	266	40.840	50	81.50	190
25.4	6.834	95	37.30	147	45.941	229	42.94	231	27.80	21	94.77	232	40.790	94	83.40	159
Dez. 5.4	6.739	132	38.77	111	45.712	270	45.25	188	27.59	29	97.09	189	40.696	136	84.99	124
15.3	6.607	167	39.88	71	45.442	302	47.13	140	27.30	36	98.98	143	40.560	172	86.23	84
25.3	6.440	195	40.59	30	45.140	326	48.53	86	26.94	41	100.41	89	40.388	204	87.07	41
35.3	6.245		40.89		44.814		49.39		26.53		101.30		40.184		87.48	
Mittl. Ort	0.679		5.91		41.999		52.79		19.18		62.38		34.423		52.35	
sec δ, tg δ	1.501		+1.119		1.869		−1.579		2.628		+2.430		1.565		+1.204	

Mittlere Zeit Greenw.	59) τ Ceti*)				60) ο Piscium				61) Lac. ε Sculptoris				62) ζ Ceti			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$1^h 40^m$		−16° 21′		$1^h 41^m$		+8° 45′		$1^h 41^m$		−25° 26′		$1^h 47^m$		−10° 43′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.3	19.594	132	51.67	81	8.317	113	8.19	66	52.376	146	91.20	87	29.073	119	65.67	87
10.3	19.462	142	52.48	57	8.204	125	7.53	69	52.230	156	92.07	54	28.954	132	66.54	67
20.2	19.320	146	53.05	30	8.079	132	6.84	69	52.074	160	92.61	19	28.822	139	67.21	47
30.2	19.174	146	53.35	2	7.947	133	6.15	67	51.914	159	92.80	16	28.683	140	67.68	25
Feb. 9.2	19.028	137	53.37	26	7.814	127	5.48	62	51.755	151	92.64	52	28.543	134	67.93	1
19.2	18.891	122	53.11	54	7.687	113	4.86	54	51.604	135	92.12	86	28.409	121	67.94	23
März 1.1	18.769	101	52.57	83	7.574	91	4.32	43	51.469	112	91.26	119	28.288	101	67.71	48
11.1	18.668	72	51.74	109	7.483	63	3.89	29	51.357	83	90.07	151	28.187	74	67.23	74
21.1	18.596	37	50.65	137	7.420	28	3.60	11	51.274	47	88.56	179	28.113	40	66.49	98
31.0	18.559	3	49.28	161	7.392	13	3.49	9	51.227	6	86.77	204	28.073	1	65.51	124
Apr. 10.0	18.562	45	47.67	184	7.405	56	3.58	32	51.221	39	84.73	226	28.072	41	64.27	146
20.0	18.607	90	45.83	203	7.461	101	3.90	57	51.260	85	82.47	245	28.113	85	62.81	168
30.0	18.697	135	43.80	219	7.562	145	4.47	81	51.345	131	80.02	257	28.198	129	61.13	187
Mai 9.9	18.832	176	41.61	231	7.707	188	5.28	104	51.476	176	77.45	266	28.327	171	59.26	202
19.9	19.008	215	39.30	238	7.895	224	6.32	126	51.652	217	74.79	266	28.498	210	57.24	213
29.9	19.223	248	36.92	238	8.119	257	7.58	146	51.869	253	72.13	262	28.708	243	55.11	219
Juni 8.9	19.471	274	34.54	234	8.376	283	9.04	162	52.122	281	69.51	251	28.951	270	52.92	219
18.8	19.745	294	32.20	224	8.659	299	10.66	173	52.403	304	67.00	233	29.221	291	50.73	215
28.8	20.039	305	29.96	207	8.958	310	12.39	179	52.707	317	64.67	210	29.512	303	48.58	203
Juli 8.8	20.344	309	27.89	184	9.268	312	14.18	182	53.024	322	62.57	180	29.815	307	46.55	187
18.7	20.653	303	26.05	157	9.580	306	16.00	179	53.346	319	60.77	145	30.122	303	44.68	165
28.7	20.956	291	24.48	126	9.886	293	17.79	170	53.665	308	59.32	107	30.425	293	43.03	139
Aug. 7.7	21.247	273	23.22	91	10.179	275	19.49	159	53.973	289	58.25	65	30.718	276	41.64	109
17.7	21.520	247	22.31	54	10.454	251	21.08	142	54.262	264	57.60	22	30.994	253	40.55	76
27.6	21.767	219	21.77	17	10.705	223	22.50	123	54.526	235	57.38	21	31.247	226	39.79	42
Sept. 6.6	21.986	186	21.60	21	10.928	194	23.73	103	54.761	200	57.59	63	31.473	196	39.37	8
16.6	22.172	151	21.81	54	11.122	161	24.76	80	54.961	164	58.22	101	31.669	163	39.29	25
26.6	22.323	117	22.35	86	11.283	129	25.56	58	55.125	127	59.23	134	31.832	129	39.54	54
Okt. 6.5	22.440	81	23.21	112	11.412	98	26.14	37	55.252	88	60.57	161	31.961	97	40.08	81
16.5	22.521	47	24.33	132	11.510	66	26.51	16	55.340	51	62.18	180	32.058	64	40.89	102
26.5	22.568	15	25.65	146	11.576	37	26.67	2	55.391	16	63.98	194	32.122	33	41.91	118
Nov. 5.4	22.583	15	27.11	152	11.613	9	26.65	17	55.407	17	65.92	196	32.155	4	43.09	128
15.4	22.568	43	28.63	153	11.622	18	26.48	32	55.390	49	67.88	193	32.159	25	44.37	133
25.4	22.525	68	30.16	147	11.604	43	26.16	42	55.341	76	69.81	180	32.134	50	45.70	130
Dez. 5.4	22.457	90	31.63	134	11.561	67	25.74	52	55.265	100	71.61	162	32.084	74	47.00	125
15.3	22.367	111	32.97	118	11.494	88	25.22	60	55.165	122	73.23	137	32.010	94	48.25	113
25.3	22.256	126	34.15	98	11.406	106	24.62	64	55.043	139	74.60	109	31.916	113	49.38	99
35.3	22.130		35.13		11.300		23.98		54.904		75.69		31.803		50.37	
Mittl. Ort	18.296		49.39		6.831		1.89		51.096		86.21		27.685		65.22	
sec δ, tg δ	1.042		−0.294		1.012		+0.154		1.107		−0.476		1.018		−0.190	

*) Die jährliche Parallaxe (0.″31) ist bereits berücksichtigt

Mittlere Zeit Greenw.	64) α Trianguli AR.		64) α Trianguli Dekl.		63) ε Cassiopeiae AR.		63) ε Cassiopeiae Dekl.		65) ξ Piscium AR.		65) ξ Piscium Dekl.		66) β Arietis AR.		66) β Arietis Dekl.	
	$1^h\ 48^m$		+29° 11′		$1^h\ 48^m$		+63° 16′		$1^h\ 49^m$		+2° 47′		$1^h\ 50^m$		+20° 24′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.3	29.302	132	17.85	28	35.82	34	39.88	59	23.106	111	21.12	74	11.331	118	55.29	45
10.3	29.170	149	17.57	52	35.48	37	40.47	5	22.995	124	20.38	70	11.213	134	54.84	60
20.3	29.021	158	17.05	75	35.11	39	40.52	47	22.871	132	19.68	63	11.079	143	54.24	73
30.2	28.863	161	16.30	94	34.72	38	40.05	100	22.739	135	19.05	54	10.936	146	53.51	84
Feb. 9.2	28.702	154	15.36	111	34.34	36	39.05	147	22.604	130	18.51	44	10.790	141	52.67	91
19.2	28.548	139	14.25	123	33.98	32	37.58	188	22.474	117	18.07	31	10.649	127	51.76	95
März 1.1	28.409	114	13.02	129	33.66	26	35.70	221	22.357	98	17.76	15	10.522	105	50.81	93
11.1	28.295	80	11.73	128	33.40	20	33.49	246	22.259	70	17.61	2	10.417	74	49.88	87
21.1	28.215	40	10.45	123	33.20	11	31.03	258	22.189	36	17.63	22	10.343	38	49.01	76
31.1	28.175	6	9.22	110	33.09	2	28.45	261	22.153	2	17.85	45	10.305	6	48.25	60
Apr. 10.0	28.181	57	8.12	91	33.07	7	25.84	254	22.155	46	18.30	66	10.311	51	47.65	40
20.0	28.238	108	7.21	68	33.14	17	23.30	236	22.201	89	18.96	91	10.362	100	47.25	16
30.0	28.346	158	6.53	41	33.31	26	20.94	211	22.290	134	19.87	112	10.462	146	47.09	10
Mai 10.0	28.504	206	6.12	10	33.57	35	18.83	177	22.424	176	20.99	134	10.608	192	47.19	37
19.9	28.710	248	6.02	20	33.92	42	17.06	138	22.600	214	22.33	153	10.800	232	47.56	65
29.9	28.958	284	6.22	52	34.34	48	15.68	94	22.814	247	23.86	168	11.032	266	48.21	91
Juni 8.9	29.242	312	6.74	81	34.82	54	14.74	48	23.061	273	25.54	178	11.298	293	49.12	114
18.8	29.554	332	7.55	110	35.36	57	14.26	1	23.334	292	27.32	186	11.591	312	50.26	136
28.8	29.886	344	8.65	134	35.93	59	14.25	46	23.626	304	29.18	186	11.903	323	51.62	154
Juli 8.8	30.230	346	9.99	156	36.52	59	14.71	92	23.930	307	31.04	184	12.226	327	53.16	166
18.8	30.576	340	11.55	172	37.11	59	15.63	135	24.237	304	32.88	174	12.553	322	54.82	175
28.7	30.916	328	13.27	184	37.70	57	16.98	175	24.541	292	34.62	161	12.875	310	56.57	179
Aug. 7.7	31.244	308	15.11	192	38.27	54	18.73	211	24.833	275	36.23	143	13.185	292	58.36	177
17.7	31.552	283	17.03	194	38.81	49	20.84	242	25.108	253	37.66	121	13.477	268	60.13	173
27.6	31.835	254	18.97	194	39.30	45	23.26	267	25.361	227	38.87	98	13.745	241	61.86	164
Sept. 6.6	32.089	223	20.91	188	39.75	39	25.93	287	25.588	197	39.85	73	13.986	211	63.50	152
16.6	32.312	189	22.79	180	40.14	33	28.80	302	25.785	166	40.58	47	14.197	179	65.02	138
26.6	32.501	154	24.59	168	40.47	26	31.82	310	25.951	135	41.05	22	14.376	147	66.40	121
Okt. 6.5	32.655	119	26.27	155	40.73	20	34.92	313	26.086	103	41.27	1	14.523	114	67.61	104
16.5	32.774	86	27.82	139	40.93	13	38.05	308	26.189	72	41.26	21	14.637	82	68.65	86
26.5	32.860	52	29.21	120	41.06	6	41.13	296	26.261	42	41.05	40	14.719	51	69.51	68
Nov. 5.5	32.912	19	30.41	102	41.12	1	44.09	279	26.303	14	40.65	53	14.770	21	70.19	50
15.4	32.931	12	31.43	81	41.11	8	46.88	254	26.317	13	40.12	65	14.791	9	70.69	32
25.4	32.919	44	32.24	60	41.03	15	49.42	222	26.304	39	39.47	72	14.782	36	71.01	15
Dez. 5.4	32.875	72	32.84	36	40.88	21	51.64	184	26.265	62	38.75	76	14.746	63	71.16	2
15.3	32.803	99	33.20	11	40.67	27	53.48	139	26.203	85	37.99	78	14.683	89	71.14	20
25.3	32.704	124	33.31	13	40.40	32	54.87	91	26.118	104	37.21	76	14.594	109	70.94	36
35.3	32.580		33.18		40.08		55.78		26.014		36.45		14.485		70.58	
Mittl. Ort	27.552		5.13		33.02		18.75		21.619		17.09		9.679		45.40	
sec δ, tg δ	1.145		+0.558		2.223		+1.986		1.001		+0.049		1.067		+0.372	

Mittlere Zeit Greenw.	67) ψ Phoenicis AR.		67) ψ Phoenicis Dekl.		68) χ Eridani AR.		68) χ Eridani Dekl.		71) υ Ceti AR.		71) υ Ceti Dekl.		72) α Hydri AR.		72) α Hydri Dekl.	
1919	1h 50m		−46° 41′		1h 52m		−52° 0′		1h 56m		−21° 27′		1h 56m		−61° 57′	
Jan. 0.3	25.214	233	67.65	84	49.576	273	54.71	81	12.685	135	75.37	97	14.29	40	62.76	73
10.3	24.981	246	68.49	34	49.303	284	55.52	27	12.550	148	76.34	67	13.89	41	63.49	14
20.3	24.735	249	68.83	17	49.019	289	55.79	27	12.402	155	77.01	36	13.48	41	63.63	44
30.2	24.486	245	68.66	68	48.730	283	55.52	80	12.247	158	77.37	2	13.07	40	63.19	100
Feb. 9.2	24.241	233	67.98	116	48.447	268	54.72	131	12.089	152	77.39	30	12.67	38	62.19	154
19.2	24.008	211	66.82	161	48.179	245	53.41	177	11.937	139	77.09	63	12.29	35	60.65	202
März 1.1	23.797	182	65.21	202	47.934	211	51.64	219	11.798	119	76.46	94	11.94	31	58.63	245
11.1	23.615	144	63.19	238	47.723	170	49.45	257	11.679	92	75.52	125	11.63	25	56.18	283
21.1	23.471	99	60.81	270	47.553	120	46.88	288	11.587	58	74.27	154	11.38	18	53.35	314
31.1	23.372	49	58.11	295	47.433	64	44.00	313	11.529	18	72.73	180	11.20	12	50.21	337
Apr. 10.0	23.323	7	55.16	314	47.369	5	40.87	331	11.511	25	70.93	203	11.08	4	46.84	354
20.0	23.330	64	52.02	327	47.364	59	37.56	343	11.536	71	68.90	223	11.04	4	43.30	362
30.0	23.394	121	48.75	332	47.423	122	34.13	346	11.607	117	66.67	239	11.08	12	39.68	362
Mai 10.0	23.515	179	45.43	331	47.545	184	30.67	342	11.724	162	64.28	250	11.20	20	36.06	355
19.9	23.694	231	42.12	320	47.729	242	27.25	330	11.886	203	61.78	255	11.40	28	32.51	338
29.9	23.925	278	38.92	304	47.971	295	23.95	311	12.089	239	59.23	254	11.68	34	29.13	316
Juni 8.9	24.203	318	35.88	279	48.266	340	20.84	283	12.328	269	56.69	246	12.02	40	25.97	283
18.8	24.521	350	33.09	247	48.606	376	18.01	249	12.597	292	54.23	234	12.42	45	23.14	245
28.8	24.871	371	30.62	210	48.982	401	15.52	208	12.889	307	51.89	213	12.87	48	20.69	199
Juli 8.8	25.242	384	28.52	164	49.383	416	13.44	161	13.196	315	49.76	189	13.35	51	18.70	149
18.8	25.626	385	26.88	116	49.799	419	11.83	110	13.511	313	47.87	157	13.86	52	17.21	94
28.7	26.011	376	25.72	64	50.218	412	10.73	55	13.824	304	46.30	122	14.38	51	16.27	35
Aug. 7.7	26.387	358	25.08	10	50.630	392	10.18	0	14.128	289	45.08	83	14.89	49	15.92	23
17.7	26.745	329	24.98	45	51.022	362	10.18	59	14.417	267	44.25	42	15.38	45	16.15	83
27.6	27.074	293	25.43	97	51.384	324	10.77	112	14.684	240	43.83	0	15.83	41	16.98	138
Sept. 6.6	27.367	251	26.40	147	51.708	277	11.89	162	14.924	208	43.83	40	16.24	34	18.36	189
16.6	27.618	203	27.87	190	51.985	225	13.51	207	15.132	175	44.23	78	16.58	28	20.25	235
26.6	27.821	153	29.77	227	52.210	167	15.58	243	15.307	139	45.01	112	16.86	21	22.60	271
Okt. 6.5	27.974	100	32.04	254	52.377	109	18.01	271	15.446	104	46.13	141	17.07	12	25.31	297
16.5	28.074	47	34.58	272	52.486	49	20.72	288	15.550	69	47.54	162	17.19	5	28.28	312
26.5	28.121	4	37.30	279	52.535	9	23.60	293	15.619	34	49.16	178	17.24	4	31.40	315
Nov. 5.5	28.117	52	40.09	274	52.526	65	26.53	288	15.653	1	50.94	184	17.20	11	34.55	306
15.4	28.065	97	42.83	260	52.461	117	29.41	270	15.654	29	52.78	184	17.09	18	37.61	285
25.4	27.968	137	45.43	236	52.344	163	32.11	243	15.625	57	54.62	175	16.91	25	40.46	253
Dez. 5.4	27.831	172	47.79	202	52.181	202	34.54	207	15.568	84	56.37	161	16.66	30	42.99	212
15.3	27.659	202	49.81	161	51.979	236	36.61	163	15.484	107	57.98	140	16.36	35	45.11	163
25.3	27.457	224	51.42	116	51.743	261	38.24	114	15.377	127	59.38	115	16.01	38	46.74	109
35.3	27.233		52.58		51.482		39.38		15.250		60.53		15.63		47.83	
Mittl. Ort	23.968		57.07		48.326		43.05		11.306		71.37		13.02		49.48	
sec δ, tg δ	1.458		−1.061		1.625		−1.281		1.075		−0.393		2.128		−1.878	

Mittlere Zeit Greenw.	70) 50 Cassiopeiae				73) γ Andromedae				74) α Arietis				75) β Trianguli			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$1^h 56^m$		+72° 1′		$1^h 58^m$		+41° 56′		$2^h 2^m$		+23° 4′		$2^h 4^m$		+34° 36′	
	s		"		s		"		s		"		s		"	
Jan. 0.3	33.00	53	70.67	92	57.251	164	45.70	12	37.930	117	58.45	34	45.015	138	30.85	4
10.3	32.47	57	71.59	35	57.087	186	45.82	25	37.813	136	58.11	52	44.877	159	30.81	32
20.3	31.90	60	71.94	24	56.901	200	45.57	60	37.677	148	57.59	67	44.718	173	30.49	61
30.2	31.30	60	71.70	82	56.701	203	44.97	94	37.529	153	56.92	81	44.545	179	29.88	87
Feb. 9.2	30.70	56	70.88	136	56.498	197	44.03	123	37.376	150	56.11	92	44.366	175	29.01	109
19.2	30.14	51	69.52	184	56.301	180	42.80	148	37.226	138	55.19	98	44.191	161	27.92	128
März 1.2	29.63	43	67.68	224	56.121	151	41.32	165	37.088	116	54.21	100	44.030	136	26.64	139
11.1	29.20	33	65.44	255	55.970	112	39.67	176	36.972	88	53.21	97	43.894	103	25.25	146
21.1	28.87	21	62.89	275	55.858	64	37.91	179	36.884	50	52.24	88	43.791	61	23.79	144
31.1	28.66	7	60.14	284	55.794	10	36.12	174	36.834	7	51.36	75	43.730	13	22.35	137
Apr. 10.0	28.59	6	57.30	282	55.784	49	34.38	161	36.827	39	50.61	57	43.717	40	20.98	122
20.0	28.65	19	54.48	269	55.833	109	32.77	141	36.866	89	50.04	35	43.757	95	19.76	101
30.0	28.84	33	51.79	247	55.942	167	31.36	114	36.955	138	49.69	10	43.852	149	18.75	77
Mai 10.0	29.17	45	49.32	215	56.109	223	30.22	84	37.093	184	49.59	17	44.001	200	17.98	48
19.9	29.62	56	47.17	178	56.332	273	29.38	51	37.277	226	49.76	45	44.201	247	17.50	17
29.9	30.18	65	45.39	134	56.605	315	28.87	14	37.503	262	50.21	71	44.448	287	17.33	16
Juni 8.9	30.83	73	44.05	88	56.920	350	28.73	23	37.765	291	50.92	97	44.735	319	17.49	48
18.9	31.56	79	43.17	38	57.270	374	28.96	58	38.056	314	51.89	120	45.054	342	17.97	79
28.8	32.35	81	42.79	12	57.644	388	29.54	93	38.370	326	53.09	139	45.396	357	18.76	107
Juli 8.8	33.16	83	42.91	62	58.032	394	30.47	124	38.696	331	54.48	155	45.753	363	19.83	133
18.8	33.99	82	43.53	109	58.426	389	31.71	152	39.027	329	56.03	166	46.116	360	21.16	155
28.7	34.81	80	44.62	155	58.815	378	33.23	177	39.356	319	57.69	172	46.476	350	22.71	172
Aug. 7.7	35.61	76	46.17	196	59.193	357	35.00	195	39.675	302	59.41	175	46.826	332	24.43	186
17.7	36.37	71	48.13	233	59.550	332	36.95	211	39.977	280	61.16	173	47.158	309	26.29	194
27.7	37.08	64	50.46	265	59.882	300	39.06	221	40.257	255	62.89	167	47.467	281	28.23	199
Sept. 6.6	37.72	57	53.11	292	60.182	266	41.27	228	40.512	225	64.56	157	47.748	251	30.22	199
16.6	38.29	49	56.03	312	60.448	229	43.55	228	40.737	195	66.13	145	47.999	216	32.21	196
26.6	38.78	39	59.15	327	60.677	191	45.83	225	40.932	162	67.58	132	48.215	182	34.17	189
Okt. 6.6	39.17	29	62.42	334	60.868	150	48.08	219	41.094	130	68.90	116	48.397	146	36.06	179
16.5	39.46	20	65.76	336	61.018	111	50.27	208	41.224	98	70.06	99	48.543	111	37.85	167
26.5	39.66	8	69.12	329	61.129	70	52.35	194	41.322	66	71.05	83	48.654	74	39.52	151
Nov. 5.5	39.74	2	72.41	314	61.199	31	54.29	175	41.388	35	71.88	65	48.728	39	41.03	134
15.4	39.72	13	75.55	292	61.230	9	56.04	154	41.423	3	72.53	48	48.767	3	42.37	114
25.4	39.59	23	78.47	261	61.221	48	57.58	128	41.426	26	73.01	30	48.770	31	43.51	92
Dez. 5.4	39.36	33	81.08	223	61.173	86	58.86	99	41.400	55	73.31	12	48.739	65	44.43	67
15.4	39.03	42	83.31	177	61.087	120	59.85	67	41.345	83	73.43	7	48.674	98	45.10	41
25.3	38.61	50	85.08	126	60.967	152	60.52	32	41.262	107	73.36	24	48.576	126	45.51	13
35.3	38.11		86.34		60.815		60.84		41.155		73.12		48.450		45.64	
Mittl. Ort	29.16		48.66		55.188		29.80		36.166		48.20		43.059		17.24	
sec δ, tg δ	3.241		+3.083		1.344		+0.899		1.087		+0.426		1.215		+0.690	

Mittlere Zeit Greenw.	76) 55 Cassiopeiae				78) Lac. μ Fornacis				80) 67 Ceti				85) ξ² Ceti			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	2h 8m		+66° 8′		2h 9m		−31° 5′		2h 12m		−6° 47′		2h 23m		+8° 5′	
Jan. 0.3	9.64	37	64.83	89	21.903	158	79.07	109	58.068	110	41.37	92	52.718	101	56.21	65
10.3	9.27	41	65.72	36	21.745	173	80.16	71	57.958	127	42.29	76	52.617	121	55.56	65
20.3	8.86	43	66.08	19	21.572	182	80.87	31	57.831	139	43.05	59	52.496	135	54.91	64
30.2	8.43	44	65.89	73	21.390	186	81.18	11	57.692	144	43.64	41	52.361	145	54.27	60
Feb. 9.2	7.99	43	65.16	124	21.204	182	81.07	51	57.548	144	44.05	20	52.216	145	53.67	55
19.2	7.56	39	63.92	170	21.022	169	80.56	90	57.404	135	44.25	2	52.071	138	53.12	47
März 1.2	7.17	33	62.22	208	20.853	149	79.66	128	57.269	118	44.23	24	51.933	123	52.65	37
11.1	6.84	26	60.14	237	20.704	120	78.38	163	57.151	93	43.99	48	51.810	98	52.28	24
21.1	6.58	17	57.77	256	20.584	86	76.75	195	57.058	62	43.51	71	51.712	67	52.04	9
31.1	6.41	8	55.21	266	20.498	44	74.80	223	56.996	24	42.80	95	51.645	29	51.95	10
Apr. 10.0	6.33	3	52.55	264	20.454	2	72.57	247	56.972	17	41.85	119	51.616	14	52.05	30
20.0	6.36	14	49.91	252	20.456	50	70.10	266	56.989	62	40.66	142	51.630	58	52.35	51
30.0	6.50	24	47.39	230	20.506	99	67.44	280	57.051	106	39.24	161	51.688	105	52.86	74
Mai 10.0	6.74	34	45.09	202	20.605	148	64.64	287	57.157	150	37.63	179	51.793	149	53.60	96
19.9	7.08	43	43.07	167	20.753	193	61.77	289	57.307	190	35.84	192	51.942	191	54.56	115
29.9	7.51	51	41.40	125	20.946	233	58.88	282	57.497	226	33.92	202	52.133	227	55.71	134
Juni 8.9	8.02	56	40.15	81	21.179	269	56.06	270	57.723	256	31.90	207	52.360	258	57.05	149
18.9	8.58	61	39.34	35	21.448	295	53.36	251	57.979	279	29.83	206	52.618	282	58.54	160
28.8	9.19	64	38.99	13	21.743	316	50.85	224	58.258	294	27.77	199	52.900	297	60.14	166
Juli 8.8	9.83	65	39.12	59	22.059	326	48.61	192	58.552	303	25.78	187	53.197	307	61.80	169
18.8	10.48	66	39.71	104	22.385	329	46.69	153	58.855	302	23.91	170	53.504	308	63.49	165
28.7	11.14	64	40.75	146	22.714	324	45.16	112	59.157	296	22.21	148	53.812	302	65.14	158
Aug. 7.7	11.78	61	42.21	185	23.038	309	44.04	65	59.453	283	20.73	121	54.114	290	66.72	146
17.7	12.39	57	44.06	219	23.347	289	43.39	18	59.736	265	19.52	92	54.404	272	68.18	129
27.7	12.96	53	46.25	248	23.636	262	43.21	30	60.001	241	18.60	60	54.676	251	69.47	111
Sept. 6.6	13.49	47	48.73	273	23.898	231	43.51	76	60.242	214	18.00	28	54.927	226	70.58	90
16.6	13.96	40	51.46	293	24.129	195	44.27	119	60.456	185	17.72	4	55.153	198	71.48	67
26.6	14.36	34	54.39	305	24.324	157	45.46	157	60.641	154	17.76	34	55.351	170	72.15	46
Okt. 6.6	14.70	27	57.44	312	24.481	118	47.03	189	60.795	122	18.10	61	55.521	140	72.61	23
16.5	14.97	19	60.56	313	24.599	79	48.92	211	60.917	92	18.71	84	55.661	109	72.84	4
26.5	15.16	11	63.69	307	24.678	40	51.03	226	61.009	61	19.55	101	55.770	80	72.88	14
Nov. 5.5	15.27	3	66.76	294	24.718	3	53.29	232	61.070	30	20.56	114	55.850	51	72.74	29
15.4	15.30	5	69.70	273	24.721	33	55.61	227	61.100	2	21.70	121	55.901	21	72.45	40
25.4	15.25	13	72.43	244	24.688	66	57.88	214	61.102	26	22.91	123	55.922	9	72.05	51
Dez. 5.4	15.12	21	74.87	210	24.622	97	60.02	194	61.076	53	24.14	120	55.913	36	71.54	57
15.4	14.91	28	76.97	168	24.525	123	61.96	167	61.023	78	25.34	112	55.877	65	70.97	62
25.3	14.63	34	78.65	121	24.402	148	63.63	133	60.945	101	26.46	102	55.812	89	70.35	65
35.3	14.29		79.86		24.254		64.96		60.844		27.48		55.723		69.70	
Mittl. Ort	6.31		44.33		20.491		72.14		56.519		41.62		50.994		51.51	
sec δ, tg δ	2.473		+2.261		1.168		−0.603		1.007		−0.119		1.010		+0.142	

Mittlere Zeit Greenw.	87) 36 H. Cassiopeiae				90) μ Hydri				89) ν Arietis				91) δ Ceti			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	2ʰ 30ᵐ		+72° 27′		2ʰ 33ᵐ		−79° 27′		2ʰ 34ᵐ		+21° 36′		2ʰ 35ᵐ		−0° 0′	
Jan. 0.3	22.51	50	74.57	132	23.54	117	61.03	97	14.703	103	51.18	27	21.444	99	71.17	85
10.3	22.01	56	75.89	79	22.37	123	62.00	36	14.600	127	50.91	40	21.345	119	72.02	76
20.3	21.45	60	76.68	21	21.14	125	62.36	24	14.473	146	50.51	54	21.226	136	72.78	65
30.3	20.85	62	76.89	37	19.89	125	62.12	84	14.327	156	49.97	65	21.090	147	73.43	53
Feb. 9.2	20.23	62	76.52	94	18.64	121	61.28	140	14.171	160	49.32	74	20.943	149	73.96	39
19.2	19.61	57	75.58	145	17.43	114	59.88	191	14.011	154	48.58	81	20.794	144	74.35	23
März 1.2	19.04	51	74.13	191	16.29	104	57.97	238	13.857	137	47.77	83	20.650	130	74.58	6
11.1	18.53	42	72.22	229	15.25	91	55.59	277	13.720	113	46.94	82	20.520	108	74.64	12
21.1	18.11	31	69.93	256	14.34	77	52.82	311	13.607	79	46.12	76	20.412	78	74.52	33
31.1	17.80	18	67.37	274	13.57	61	49.71	335	13.528	39	45.36	65	20.334	42	74.19	54
Apr. 10.1	17.62	4	64.63	280	12.96	43	46.36	354	13.489	6	44.71	50	20.292	1	73.65	75
20.0	17.58	10	61.83	276	12.53	23	42.82	365	13.495	55	44.21	31	20.291	43	72.90	98
30.0	17.68	23	59.07	262	12.30	4	39.17	366	13.550	105	43.90	10	20.334	89	71.92	118
Mai 10.0	17.91	37	56.45	239	12.26	15	35.51	360	13.655	152	43.80	14	20.423	133	70.74	139
20.0	18.28	50	54.06	207	12.41	35	31.91	346	13.807	196	43.94	38	20.556	175	69.35	155
29.9	18.78	59	51.99	171	12.76	53	28.45	324	14.003	236	44.32	62	20.731	212	67.80	168
Juni 8.9	19.37	69	50.28	128	13.29	70	25.21	293	14.239	270	44.94	85	20.943	244	66.12	179
18.9	20.06	76	49.00	83	13.99	85	22.28	255	14.509	295	45.79	106	21.187	269	64.33	183
28.8	20.82	82	48.17	35	14.84	98	19.73	210	14.804	313	46.85	123	21.456	288	62.50	184
Juli 8.8	21.64	84	47.82	12	15.82	107	17.63	160	15.117	323	48.08	138	21.744	299	60.66	178
18.8	22.48	86	47.94	60	16.89	114	16.03	105	15.440	327	49.46	147	22.043	302	58.88	168
28.8	23.34	85	48.54	106	18.03	118	14.98	45	15.767	321	50.93	153	22.345	298	57.20	153
Aug. 7.7	24.19	83	49.60	149	19.21	116	14.53	15	16.088	311	52.46	154	22.643	289	55.67	132
17.7	25.02	79	51.09	189	20.37	112	14.68	76	16.399	293	54.00	153	22.932	273	54.35	109
27.7	25.81	73	52.98	224	21.49	105	15.44	134	16.692	273	55.53	145	23.205	253	53.26	84
Sept. 6.7	26.54	67	55.22	256	22.54	92	16.78	190	16.965	248	56.98	137	23.458	230	52.42	55
16.6	27.21	60	57.78	281	23.46	78	18.68	238	17.213	221	58.35	125	23.688	203	51.87	28
26.6	27.81	50	60.59	302	24.24	61	21.06	278	17.434	191	59.60	112	23.891	175	51.59	0
Okt. 6.6	28.31	42	63.61	316	24.85	40	23.84	309	17.625	162	60.72	97	24.066	147	51.59	25
16.5	28.73	32	66.77	324	25.25	18	26.93	327	17.787	131	61.69	82	24.213	117	51.84	48
26.5	29.05	20	70.01	325	25.43	3	30.20	334	17.918	100	62.51	68	24.330	87	52.32	66
Nov. 5.5	29.25	10	73.26	318	25.40	25	33.54	328	18.018	68	63.19	53	24.417	57	52.98	80
15.5	29.35	2	76.44	303	25.15	47	36.82	309	18.086	36	63.72	38	24.474	27	53.78	90
25.4	29.33	13	79.47	280	24.68	67	39.91	279	18.122	4	64.10	24	24.501	3	54.68	95
Dez. 5.4	29.20	25	82.27	249	24.01	84	42.70	239	18.126	29	64.34	9	24.498	32	55.63	97
15.4	28.95	36	84.76	211	23.17	99	45.09	190	18.097	60	64.43	4	24.466	60	56.60	95
25.4	28.59	45	86.87	163	22.18	111	46.99	133	18.037	90	64.39	19	24.406	86	57.55	90
35.3	28.14		88.50		21.07		48.32		17.947		64.20		24.320		58.45	
Mittl. Ort	17.87		54.66		21.25		46.52		12.764		42.75		19.729		72.96	
sec δ, tg δ	3.319		+3.165		5.468		−5.376		1.076		+0.396		1.000		0.000	

Mittlere Zeit Greenw.	93) ϑ Persei				97) π Ceti				98) μ Ceti				100) 41 Arietis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	2h 38m		+48° 53′		2h 40m		−14° 11′		2h 40m		+9° 46′		2h 45m		+26° 55′	
Jan. 0.3	42.108s	169	27.49″	65	17.655s	110	66.54″	115	35.468s	94	26.86″	60	14.770s	103	48.24″	6
10.3	41.939	204	28.14	27	17.545	132	67.69	92	35.374	117	26.26	62	14.667	131	48.18	25
20.3	41.735	231	28.41	14	17.413	148	68.61	66	35.257	135	25.64	61	14.536	152	47.93	42
30.3	41.504	245	28.27	54	17.265	159	69.27	40	35.122	147	25.03	59	14.384	167	47.51	60
Feb. 9.2	41.259	248	27.73	91	17.106	161	69.67	12	34.975	151	24.44	56	14.217	171	46.91	75
19.2	41.011	237	26.82	125	16.945	156	69.79	17	34.824	146	23.88	50	14.046	166	46.16	87
März 1.2	40.774	214	25.57	153	16.789	143	69.62	46	34.678	133	23.38	42	13.880	152	45.29	96
11.1	40.560	174	24.04	175	16.646	122	69.16	74	34.545	111	22.96	30	13.728	127	44.33	99
21.1	40.386	127	22.29	189	16.524	92	68.42	102	34.434	80	22.66	17	13.601	92	43.34	98
31.1	40.259	70	20.40	195	16.432	56	67.40	128	34.354	44	22.49	1	13.509	52	42.36	92
Apr. 10.1	40.189	5	18.45	192	16.376	15	66.12	153	34.310	2	22.48	18	13.457	4	41.44	80
20.0	40.184	63	16.53	182	16.361	29	64.59	176	34.308	44	22.66	38	13.453	46	40.64	64
30.0	40.247	130	14.71	165	16.390	75	62.83	196	34.352	90	23.04	60	13.499	97	40.00	45
Mai 10.0	40.377	196	13.06	141	16.465	120	60.87	212	34.442	136	23.64	81	13.596	147	39.55	21
20.0	40.573	256	11.65	111	16.585	164	58.75	223	34.578	179	24.45	101	13.743	195	39.34	3
29.9	40.829	310	10.54	79	16.749	202	56.52	230	34.757	216	25.46	120	13.938	236	39.37	28
Juni 8.9	41.139	356	9.75	44	16.951	236	54.22	230	34.973	249	26.66	135	14.174	273	39.65	54
18.9	41.495	390	9.31	7	17.187	264	51.92	226	35.222	275	28.01	148	14.447	300	40.19	77
28.8	41.885	416	9.24	29	17.451	284	49.66	214	35.497	294	29.49	156	14.747	321	40.96	98
Juli 8.8	42.301	432	9.53	64	17.735	297	47.52	197	35.791	305	31.05	159	15.068	333	41.94	117
18.8	42.733	437	10.17	97	18.032	303	45.55	174	36.096	308	32.64	158	15.401	338	43.11	131
28.8	43.170	432	11.14	128	18.335	301	43.81	145	36.404	306	34.22	153	15.739	334	44.42	142
Aug. 7.7	43.602	420	12.42	154	18.636	293	42.36	113	36.710	296	35.75	142	16.073	325	45.84	149
17.7	44.022	400	13.96	178	18.929	278	41.23	77	37.006	281	37.17	128	16.398	310	47.33	153
27.7	44.422	373	15.74	196	19.207	258	40.46	39	37.287	262	38.45	111	16.708	290	48.86	151
Sept. 6.7	44.795	343	17.70	211	19.465	234	40.07	1	37.549	239	39.56	92	16.998	266	50.37	147
16.6	45.138	307	19.81	222	19.699	208	40.06	37	37.788	213	40.48	70	17.264	239	51.84	141
26.6	45.445	268	22.03	228	19.907	178	40.43	72	38.001	186	41.18	50	17.503	211	53.25	132
Okt. 6.6	45.713	228	24.31	231	20.085	148	41.15	103	38.187	157	41.68	29	17.714	181	54.57	121
16.5	45.941	184	26.62	229	20.233	116	42.18	129	38.344	129	41.97	9	17.895	149	55.78	109
26.5	46.125	138	28.91	222	20.349	84	43.47	148	38.473	98	42.06	7	18.044	117	56.87	97
Nov. 5.5	46.263	92	31.13	211	20.433	52	44.95	162	38.571	69	41.99	22	18.161	84	57.84	83
15.5	46.355	43	33.24	196	20.485	20	46.57	168	38.640	38	41.77	34	18.245	50	58.67	69
25.4	46.398	6	35.20	175	20.505	11	48.25	166	38.678	8	41.43	44	18.295	14	59.36	54
Dez. 5.4	46.392	56	36.95	151	20.494	42	49.91	160	38.686	23	40.99	51	18.309	20	59.90	39
15.4	46.336	104	38.46	121	20.452	70	51.51	146	38.663	53	40.48	56	18.289	56	60.29	22
25.4	46.232	149	39.67	87	20.382	98	52.97	129	38.610	81	39.92	59	18.233	88	60.51	4
35.3	46.083		40.54		20.284		54.26		38.529		39.33		18.145		60.55	
Mittl. Ort	39.487		12.17		16.009		63.95		33.637		22.25		12.681		38.82	
sec δ, tg δ	1.521		+1.146		1.031		−0.253		1.015		+0.172		1.122		+0.508	

Mittlere Zeit Greenw.	101) β Fornacis AR.		101) β Fornacis Dekl.		102) τ² Eridani AR.		102) τ² Eridani Dekl.		103) τ Persei AR.		103) τ Persei Dekl.		104) η Eridani AR.		104) η Eridani Dekl.	
1919	2h 45m		−32° 44′		2h 47m		−21° 19′		2h 48m		+52° 25′		2h 52m		−9° 12′	
Jan. 0.3	43.612s	152	51.52″	143	23.488s	120	79.44″	131	33.121s	181	70.43″	85	29.888s	98	72.94″	112
10.3	43.460	175	52.95	103	23.368	144	80.75	101	32.940	221	71.28	46	29.790	123	74.06	93
20.3	43.285	191	53.98	62	23.224	160	81.76	70	32.719	253	71.74	3	29.667	141	74.99	72
30.3	43.094	202	54.60	18	23.064	172	82.46	35	32.466	271	71.77	40	29.526	154	75.71	50
Feb. 9.2	42.892	205	54.78	26	22.892	175	82.81	0	32.195	276	71.37	80	29.372	159	76.21	26
19.2	42.687	198	54.52	67	22.717	171	82.81	34	31.919	267	70.57	119	29.213	157	76.47	2
März 1.2	42.489	183	53.85	108	22.546	158	82.47	67	31.652	243	69.38	150	29.056	146	76.49	22
11.2	42.306	159	52.77	147	22.388	137	81.80	101	31.409	204	67.88	177	28.910	125	76.27	49
21.1	42.147	127	51.30	182	22.251	107	80.79	131	31.205	153	66.11	195	28.785	98	75.78	73
31.1	42.020	88	49.48	213	22.144	71	79.48	161	31.052	92	64.16	205	28.687	63	75.05	98
Apr. 10.1	41.932	43	47.35	241	22.073	30	77.87	188	30.960	25	62.11	206	28.624	23	74.07	123
20.0	41.889	5	44.94	264	22.043	16	75.99	210	30.935	48	60.05	199	28.601	21	72.84	145
30.0	41.894	56	42.30	280	22.059	63	73.89	230	30.983	121	58.06	184	28.622	66	71.39	166
Mai 10.0	41.950	106	39.50	292	22.122	110	71.59	244	31.104	192	56.22	163	28.688	112	69.73	183
20.0	42.056	155	36.58	297	22.232	154	69.15	254	31.296	257	54.59	135	28.800	154	67.90	198
29.9	42.211	200	33.61	294	22.386	196	66.61	257	31.553	317	53.24	103	28.954	194	65.92	207
Juni 8.9	42.411	240	30.67	284	22.582	231	64.04	253	31.870	367	52.21	68	29.148	229	63.85	211
18.9	42.651	273	27.83	267	22.813	262	61.51	244	32.237	407	51.53	31	29.377	256	61.74	210
28.9	42.924	298	25.16	243	23.075	284	59.07	228	32.644	436	51.22	6	29.633	278	59.64	204
Juli 8.8	43.222	317	22.73	213	23.359	299	56.79	206	33.080	456	51.28	43	29.911	292	57.60	191
18.8	43.539	327	20.60	175	23.658	307	54.73	177	33.536	464	51.71	78	30.203	298	55.69	172
28.8	43.866	328	18.85	132	23.965	308	52.96	142	34.000	462	52.49	111	30.501	299	53.97	149
Aug. 7.7	44.194	321	17.53	86	24.273	300	51.54	105	34.462	451	53.60	141	30.800	292	52.48	121
17.7	44.515	307	16.67	36	24.573	287	50.49	63	34.913	433	55.01	167	31.092	279	51.27	90
27.7	44.822	287	16.31	14	24.860	268	49.86	20	35.346	407	56.68	190	31.371	262	50.37	55
Sept. 6.7	45.109	261	16.45	64	25.128	244	49.66	24	35.753	376	58.58	209	31.633	241	49.82	21
16.6	45.370	229	17.09	111	25.372	217	49.90	66	36.129	340	60.67	223	31.874	215	49.61	15
26.6	45.599	196	18.20	154	25.589	187	50.56	105	36.469	300	62.90	233	32.089	188	49.76	48
Okt. 6.6	45.795	158	19.74	191	25.776	155	51.61	139	36.769	257	65.23	239	32.277	159	50.24	78
16.6	45.953	120	21.65	220	25.931	121	53.00	167	37.026	211	67.62	240	32.436	130	51.02	103
26.5	46.073	81	23.85	239	26.052	88	54.67	187	37.237	162	70.02	237	32.566	99	52.05	124
Nov. 5.5	46.154	41	26.24	250	26.140	54	56.54	201	37.399	110	72.39	228	32.665	68	53.29	138
15.5	46.195	2	28.74	251	26.194	19	58.55	204	37.509	57	74.67	215	32.733	37	54.67	147
25.4	46.197	36	31.25	242	26.213	14	60.59	201	37.566	3	76.82	196	32.770	5	56.14	148
Dez. 5.4	46.161	72	33.67	224	26.199	47	62.60	190	37.569	53	78.78	173	32.775	26	57.62	144
15.4	46.089	106	35.91	198	26.152	78	64.50	171	37.516	107	80.51	142	32.749	56	59.06	136
25.4	45.983	136	37.89	165	26.074	106	66.21	149	37.409	157	81.93	108	32.693	86	60.42	122
35.3	45.847		39.54		25.968		67.70		37.252		83.01		32.607		61.64	
Mittl. Ort	42.003		43.93		21.839		74.74		30.254		55.02		28.154		71.54	
sec δ, tg δ	1.189		−0.643		1.074		−0.391		1.640		+1.300		1.013		−0.162	

Mittlere Zeit Greenw.	106) ϑ Eridani AR.		Dekl.		105) 47 H. Cephei AR.		Dekl.		107) α Ceti AR.		Dekl.		108) γ Persei AR.		Dekl.	
1919	$2^h\ 55^m$		−40° 37′		$2^h\ 55^m$		+79° 5′		$2^h\ 58^m$		+3° 46′		$2^h\ 58^m$		+53° 11′	
Jan. 0.3	12.956	179	52.47	157	22.88	77	80.60	180	4.439	87	23.88	79	58.150	176	39.70	96
10.3	12.777	207	54.04	113	22.11	90	82.40	126	4.352	113	23.09	73	57.974	220	40.66	58
20.3	12.570	226	55.17	65	21.21	99	83.66	67	4.239	133	22.36	65	57.754	254	41.24	15
30.3	12.344	238	55.82	17	20.22	104	84.33	6	4.106	147	21.71	57	57.500	277	41.39	28
Feb. 9.2	12.106	241	55.99	32	19.18	104	84.39	54	3.959	155	21.14	46	57.223	285	41.11	69
19.2	11.865	235	55.67	79	18.14	100	83.85	112	3.804	154	20.68	34	56.938	278	40.42	108
März 1.2	11.630	220	54.88	125	17.14	91	82.73	165	3.650	142	20.34	21	56.660	256	39.34	143
11.2	11.410	194	53.63	166	16.23	78	81.08	211	3.508	124	20.13	6	56.404	219	37.91	170
21.1	11.216	161	51.97	204	15.45	62	78.97	247	3.384	95	20.07	11	56.185	170	36.21	190
31.1	11.055	119	49.93	238	14.83	43	76.50	274	3.289	61	20.18	30	56.015	109	34.31	203
Apr. 10.1	10.936	71	47.55	267	14.40	22	73.76	290	3.228	21	20.48	50	55.906	41	32.28	207
20.0	10.865	19	44.88	290	14.18	0	70.86	294	3.207	24	20.98	71	55.865	32	30.21	203
30.0	10.846	35	41.98	306	14.18	21	67.92	288	3.231	69	21.69	91	55.897	106	28.18	190
Mai 10.0	10.881	90	38.92	317	14.39	43	65.04	272	3.300	114	22.60	111	56.003	179	26.28	170
20.0	10.971	144	35.75	320	14.82	64	62.32	248	3.414	157	23.71	129	56.182	247	24.58	145
29.9	11.115	194	32.55	315	15.46	81	59.84	216	3.571	198	25.00	144	56.429	308	23.13	114
Juni 8.9	11.309	239	29.40	302	16.27	97	57.68	177	3.769	231	26.44	156	56.737	361	21.99	82
18.9	11.548	278	26.38	282	17.24	110	55.91	134	4.000	259	28.00	164	57.098	403	21.17	45
28.9	11.826	309	23.56	254	18.34	120	54.57	89	4.259	279	29.64	168	57.501	438	20.72	8
Juli 8.8	12.135	331	21.02	219	19.54	127	53.68	39	4.538	294	31.32	166	57.939	458	20.64	28
18.8	12.466	345	18.83	177	20.81	132	53.29	9	4.832	301	32.98	159	58.397	470	20.92	64
28.8	12.811	350	17.06	131	22.13	133	53.38	57	5.133	300	34.57	149	58.867	470	21.56	97
Aug. 7.7	13.161	347	15.75	79	23.46	131	53.95	104	5.433	294	36.06	132	59.337	463	22.53	127
17.7	13.508	334	14.96	26	24.77	128	54.99	149	5.727	283	37.38	114	59.800	446	23.80	155
27.7	13.842	314	14.70	30	26.05	122	56.48	190	6.010	265	38.52	90	60.246	422	25.35	178
Sept. 6.7	14.156	287	15.00	84	27.27	113	58.38	228	6.275	245	39.42	66	60.668	394	27.13	199
16.6	14.443	254	15.84	134	28.40	102	60.66	261	6.520	222	40.08	40	61.062	358	29.12	215
26.6	14.697	217	17.18	181	29.42	90	63.27	288	6.742	196	40.48	15	61.420	319	31.27	226
Okt. 6.6	14.914	177	18.99	220	30.32	76	66.15	311	6.938	169	40.63	8	61.739	278	33.53	235
16.6	15.091	133	21.19	251	31.08	61	69.26	326	7.107	141	40.55	31	62.017	231	35.88	237
26.5	15.224	88	23.70	271	31.69	43	72.52	336	7.248	112	40.24	48	62.248	182	38.25	236
Nov. 5.5	15.312	42	26.41	282	32.12	25	75.88	336	7.360	82	39.76	63	62.430	129	40.61	231
15.5	15.354	2	29.23	282	32.37	6	79.24	328	7.442	51	39.13	74	62.559	75	42.92	218
25.4	15.352	45	32.05	271	32.43	14	82.52	312	7.493	20	38.39	80	62.634	18	45.10	202
Dez. 5.4	15.307	88	34.76	250	32.29	34	85.64	287	7.513	11	37.59	84	62.652	40	47.12	180
15.4	15.219	127	37.26	220	31.95	51	88.51	253	7.502	43	36.75	84	62.612	96	48.92	152
25.4	15.092	162	39.46	184	31.44	69	91.04	210	7.459	73	35.91	82	62.516	150	50.44	119
35.3	14.930		41.30		30.75		93.14		7.386		35.09		62.366		51.63	
Mittl. Ort	11.297		43.11		15.25		61.95		2.578		21.68		55.149		24.88	
sec δ, tg δ	1.318		−0.858		5.289		+5.193		1.002		+0.066		1.669		+1.336	

Mittlere Zeit Greenw.	109) ρ Persei AR.		109) ρ Persei Dekl.		110) μ Horologii AR.		110) μ Horologii Dekl.		111) β Persei AR.		111) β Persei Dekl.		114) δ Arietis AR.		114) δ Arietis Dekl.	
1919	2h 59m		+38° 31′		3h 1m		−60° 2′		3h 2m		+40° 38′		3h 6m		+19° 25′	
Jan. 0.4	61.213 s	116	50.04″	42	43.92 s	34	78.40″	164	56.032 s	119	52.25″	52	61.708 s	84	22.67″	25
10.3	61.097	150	50.46	15	43.58	38	80.04	110	55.913	156	52.77	24	61.624	114	22.42	35
20.3	60.947	178	50.61	14	43.20	40	81.14	53	55.757	185	53.01	7	61.510	137	22.07	44
30.3	60.769	197	50.47	42	42.80	41	81.67	5	55.572	205	52.94	38	61.373	155	21.63	53
Feb. 9.2	60.572	204	50.05	71	42.39	42	81.62	62	55.367	213	52.56	68	61.218	164	21.10	59
19.2	60.368	202	49.34	95	41.97	40	81.00	116	55.154	211	51.88	94	61.054	165	20.51	63
März 1.2	60.166	187	48.39	115	41.57	38	79.84	166	54.943	196	50.94	118	60.889	154	19.88	66
11.2	59.979	160	47.24	131	41.19	34	78.18	212	54.747	169	49.76	135	60.735	134	19.22	64
21.1	59.819	123	45.93	141	40.85	29	76.06	253	54.578	131	48.41	147	60.601	105	18.58	59
31.1	59.696	77	44.52	143	40.56	24	73.53	288	54.447	83	46.94	152	60.496	68	17.99	51
Apr. 10.1	59.619	25	43.09	140	40.32	16	70.65	317	54.364	30	45.42	149	60.428	25	17.48	38
20.1	59.594	32	41.69	130	40.16	10	67.48	337	54.334	28	43.93	141	60.403	21	17.10	22
30.0	59.626	91	40.39	114	40.06	1	64.11	351	54.362	89	42.52	126	60.424	71	16.88	4
Mai 10.0	59.717	148	39.25	94	40.05	6	60.60	356	54.451	147	41.26	106	60.495	118	16.84	16
20.0	59.865	201	38.31	69	40.11	14	57.04	354	54.598	202	40.20	81	60.613	164	17.00	37
29.9	60.066	250	37.62	41	40.25	22	53.50	343	54.800	253	39.39	55	60.777	207	17.37	59
Juni 8.9	60.316	291	37.21	13	40.47	28	50.07	324	55.053	296	38.84	25	60.984	242	17.96	78
18.9	60.607	326	37.08	16	40.75	34	46.83	295	55.349	332	38.59	4	61.226	273	18.74	95
28.9	60.933	351	37.24	44	41.09	40	43.88	260	55.681	358	38.63	34	61.499	295	19.69	111
Juli 8.8	61.284	367	37.68	71	41.49	43	41.28	216	56.039	375	38.97	62	61.794	311	20.80	123
18.8	61.651	375	38.39	96	41.92	47	39.12	168	56.414	385	39.59	89	62.105	318	22.03	130
28.8	62.026	376	39.35	117	42.39	48	37.44	111	56.799	385	40.48	111	62.423	319	23.33	134
Aug. 7.8	62.402	368	40.52	135	42.87	48	36.33	54	57.184	378	41.59	131	62.742	313	24.67	134
17.7	62.770	354	41.87	149	43.35	46	35.79	8	57.562	365	42.90	148	63.055	303	26.01	130
27.7	63.124	335	43.36	161	43.81	45	35.87	68	57.927	345	44.38	161	63.358	286	27.31	123
Sept. 6.7	63.459	311	44.97	168	44.26	41	36.55	128	58.272	322	45.99	170	63.644	267	28.54	112
16.6	63.770	284	46.65	171	44.67	36	37.83	183	58.594	294	47.69	176	63.911	244	29.66	100
26.6	64.054	254	48.36	173	45.03	30	39.66	233	58.888	264	49.45	179	64.155	218	30.66	87
Okt. 6.6	64.308	221	50.09	171	45.33	24	41.99	273	59.152	230	51.24	179	64.373	192	31.53	72
16.6	64.529	187	51.80	166	45.57	17	44.72	303	59.382	195	53.03	176	64.565	163	32.25	58
26.5	64.716	150	53.46	159	45.74	9	47.75	324	59.577	158	54.79	170	64.728	134	32.83	44
Nov. 5.5	64.866	111	55.05	150	45.83	2	50.99	330	59.735	117	56.49	162	64.862	102	33.27	32
15.5	64.977	72	56.55	137	45.85	5	54.29	325	59.852	76	58.11	149	64.964	70	33.59	20
25.5	65.049	29	57.92	122	45.80	13	57.54	308	59.928	32	59.60	135	65.034	36	33.79	10
Dez. 5.4	65.078	13	59.14	104	45.67	20	60.62	280	59.960	12	60.95	116	65.070	2	33.89	1
15.4	65.065	56	60.18	82	45.47	26	63.42	242	59.948	56	62.11	94	65.072	34	33.88	11
25.4	65.009	96	61.00	59	45.21	31	65.84	196	59.892	100	63.05	69	65.038	67	33.77	20
35.3	64.913		61.59		44.90		67.80		59.792		63.74		64.971		33.57	
Mittl. Ort	58.775		38.46		42.08		65.89		53.512		40.37		59.618		16.43	
sec δ, tg δ	1.278		+0.796		2.003		−1.736		1.318		+0.858		1.060		+0.352	

Mittlere Zeit Greenw.	117) 12 Eridani				115) 48 H. Cephei				120) α Persei				121) ο Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$3^h\ 8^m$		−29° 17′		$3^h\ 9^m$		+77° 26′		$3^h\ 18^m$		+49° 34′		$3^h\ 20^m$		+8° 44′	
Jan. 0.4	39.474 s	130	87.69″	157	66.34 s	61	38.19″	190	34.842 s	137	38.94″	97	29.133 s	75	43.38″	64
10.3	39.344	157	89.26	121	65.73	74	40.09	138	34.705	184	39.91	64	29.058	104	42.74	62
20.3	39.187	178	90.47	83	64.99	83	41.47	82	34.521	221	40.55	26	28.954	129	42.12	59
30.3	39.009	194	91.30	41	64.16	88	42.29	24	34.300	247	40.81	—12	28.825	149	41.53	55
Feb. 9.3	38.815	201	91.71	0	63.28	90	42.53	—37	34.053	262	40.69	50	28.676	158	40.98	50
19.2	38.614	199	91.71	41	62.38	88	42.16	94	33.791	261	40.19	87	28.518	161	40.48	43
März 1.2	38.415	189	91.30	81	61.50	81	41.22	148	33.530	246	39.32	119	28.357	154	40.05	35
11.2	38.226	168	90.49	119	60.69	72	39.74	195	33.284	218	38.13	146	28.203	138	39.70	24
21.1	38.058	140	89.30	155	59.97	58	37.79	233	33.066	175	36.67	167	28.065	112	39.46	12
31.1	37.918	104	87.75	187	59.39	42	35.46	262	32.891	123	35.00	181	27.953	79	39.34	—3
Apr. 10.1	37.814	63	85.88	217	58.97	24	32.84	281	32.768	61	33.19	186	27.874	39	39.37	20
20.1	37.751	15	83.71	241	58.73	6	30.03	288	32.707	—5	31.33	184	27.835	—4	39.57	38
30.0	37.736	—33	81.30	262	58.67	—14	27.15	286	32.712	74	29.49	175	27.839	51	39.95	56
Mai 10.0	37.769	83	78.68	276	58.81	32	24.29	273	32.786	142	27.74	159	27.890	97	40.51	76
20.0	37.852	131	75.92	285	59.13	51	21.56	252	32.928	208	26.15	136	27.987	141	41.27	95
30.0	37.983	176	73.07	286	59.64	67	19.04	222	33.136	266	24.79	111	28.128	183	42.22	111
Juni 8.9	38.159	218	70.21	282	60.31	81	16.82	188	33.402	320	23.68	81	28.311	218	43.33	125
18.9	38.377	252	67.39	268	61.12	94	14.94	147	33.722	362	22.87	49	28.529	250	44.58	136
28.9	38.629	279	64.71	249	62.06	103	13.47	103	34.084	397	22.38	16	28.779	273	45.94	143
Juli 8.8	38.908	300	62.22	223	63.09	111	12.44	56	34.481	421	22.22	—16	29.052	289	47.37	146
18.8	39.208	313	59.99	189	64.20	115	11.88	10	34.902	435	22.38	49	29.341	300	48.83	145
28.8	39.521	319	58.10	150	65.35	117	11.78	—38	35.337	441	22.87	78	29.641	303	50.28	138
Aug. 7.8	39.840	315	56.60	106	66.52	117	12.16	84	35.778	437	23.65	107	29.944	300	51.66	128
17.7	40.155	307	55.54	59	67.69	114	13.00	128	36.215	426	24.72	131	30.244	291	52.94	113
27.7	40.462	290	54.95	9	68.83	110	14.28	170	36.641	407	26.03	153	30.535	278	54.07	96
Sept. 6.7	40.752	269	54.86	—39	69.93	103	15.98	207	37.048	384	27.56	171	30.813	260	55.03	76
16.7	41.021	242	55.25	88	70.96	95	18.05	241	37.432	356	29.27	185	31.073	240	55.79	54
26.6	41.263	213	56.13	131	71.91	85	20.46	271	37.788	322	31.12	198	31.313	217	56.33	33
Okt. 6.6	41.476	180	57.44	171	72.76	73	23.17	294	38.110	286	33.10	204	31.530	192	56.66	11
16.6	41.656	145	59.15	202	73.49	60	26.11	312	38.396	246	35.14	209	31.722	166	56.77	—7
26.5	41.801	108	61.17	225	74.09	46	29.23	324	38.642	202	37.23	210	31.888	138	56.70	24
Nov. 5.5	41.909	70	63.42	241	74.55	29	32.47	327	38.844	155	39.33	206	32.026	107	56.46	39
15.5	41.979	32	65.83	245	74.84	13	35.74	323	38.999	105	41.39	197	32.133	76	56.07	49
25.5	42.011	—5	68.28	241	74.97	—4	38.97	309	39.104	51	43.36	185	32.209	44	55.58	57
Dez. 5.4	42.006	43	70.69	227	74.93	21	42.06	288	39.155	—3	45.21	167	32.253	10	55.01	62
15.4	41.963	79	72.96	206	74.72	38	44.94	258	39.152	58	46.88	145	32.263	—24	54.39	64
25.4	41.884	113	75.02	178	74.34	53	47.52	217	39.094	111	48.33	117	32.239	57	53.75	65
35.4	41.771		76.80		73.81		49.69		38.983		49.50		32.182		53.10	
Mittl. Ort	37.741		80.81		59.23		20.90		31.866		26.28		27.116		40.64	
sec δ, tg δ	1.147		−0.561		4.598		+4.488		1.542		+1.174		1.012		+0.154	

Mittlere Zeit Greenw.	122) 2 H. Camelop.				125) f Tauri				127) ε Eridani *)				131) δ Persei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	3h 22m		+59° 39′		3h 26m		+12° 39′		3h 29m		−9° 43′		3h 37m		+47° 31′	
Jan. 0.4	33.452	195	47.86	140	25.987	70	39.13	49	8.689	86	56.87	127	12.026	111	57.72	101
10.3	33.257	254	49.26	100	25.917	102	38.64	50	8.603	114	58.14	106	11.915	159	58.73	71
20.3	33.003	301	50.26	55	25.815	128	38.14	51	8.489	140	59.20	85	11.756	199	59.44	38
30.3	32.702	336	50.81	8	25.687	149	37.63	52	8.349	157	60.05	61	11.557	231	59.82	2
Feb. 9.3	32.366	352	50.89	38	25.538	161	37.11	50	8.192	169	60.66	36	11.326	249	59.84	33
19.2	32.014	352	50.51	84	25.377	164	36.61	48	8.023	172	61.02	10	11.077	255	59.51	67
März 1.2	31.662	332	49.67	126	25.213	159	36.13	43	7.851	165	61.12	15	10.822	245	58.84	100
11.2	31.330	295	48.41	161	25.054	142	35.70	37	7.686	150	60.97	42	10.577	222	57.84	126
21.1	31.035	241	46.80	191	24.912	117	35.33	28	7.536	126	60.55	67	10.355	185	56.58	148
31.1	30.794	175	44.89	212	24.795	83	35.05	16	7.410	94	59.88	93	10.170	139	55.10	164
Apr. 10.1	30.619	97	42.77	224	24.712	44	34.89	1	7.316	55	58.95	117	10.031	80	53.46	171
20.1	30.522	14	40.53	227	24.668	1	34.88	14	7.261	14	57.78	141	9.951	18	51.75	172
30.0	30.508	73	38.26	222	24.669	47	35.02	33	7.247	32	56.37	161	9.933	47	50.03	165
Mai 10.0	30.581	159	36.04	209	24.716	94	35.35	52	7.279	78	54.76	179	9.980	114	48.38	153
20.0	30.740	241	33.95	188	24.810	140	35.87	70	7.357	122	52.97	194	10.094	177	46.85	134
30.0	30.981	316	32.07	161	24.950	181	36.57	87	7.479	163	51.03	203	10.271	237	45.51	112
Juni 8.9	31.297	383	30.46	131	25.131	219	37.44	104	7.642	201	49.00	210	10.508	289	44.39	85
18.9	31.680	440	29.15	96	25.350	249	38.48	116	7.843	232	46.90	209	10.797	335	43.54	57
28.9	32.120	483	28.19	58	25.599	275	39.64	126	8.075	258	44.81	203	11.132	370	42.97	26
Juli 8.8	32.603	516	27.61	21	25.874	292	40.90	133	8.333	277	42.78	191	11.502	397	42.71	3
18.8	33.119	537	27.40	17	26.166	303	42.23	134	8.610	288	40.87	174	11.899	415	42.74	32
28.8	33.656	547	27.57	54	26.469	307	43.57	131	8.898	294	39.13	151	12.314	423	43.06	61
Aug. 7.8	34.203	545	28.11	90	26.776	304	44.88	125	9.192	292	37.62	123	12.737	424	43.67	86
17.7	34.748	533	29.01	122	27.080	297	46.13	114	9.484	285	36.39	91	13.161	418	44.53	109
27.7	35.281	514	30.23	153	27.377	284	47.27	101	9.769	273	35.48	56	13.579	403	45.62	130
Sept. 6.7	35.795	485	31.76	179	27.661	267	48.28	84	10.042	256	34.92	20	13.982	385	46.92	147
16.7	36.280	451	33.55	203	27.928	248	49.12	67	10.298	235	34.72	17	14.367	360	48.39	161
26.6	36.731	409	35.58	222	28.176	225	49.79	48	10.533	213	34.89	51	14.727	332	50.00	173
Okt. 6.6	37.140	363	37.80	237	28.401	201	50.27	29	10.746	186	35.40	84	15.059	299	51.73	181
16.6	37.503	311	40.17	248	28.602	175	50.56	13	10.932	159	36.24	112	15.358	263	53.54	187
26.5	37.814	254	42.65	254	28.777	147	50.69	2	11.091	130	37.36	134	15.621	222	55.41	189
Nov. 5.5	38.068	191	45.19	254	28.924	117	50.67	16	11.221	98	38.70	151	15.843	179	57.30	188
15.5	38.259	125	47.73	249	29.041	85	50.51	27	11.319	67	40.21	161	16.022	130	59.18	182
25.5	38.384	54	50.22	237	29.126	53	50.24	34	11.386	33	41.82	163	16.152	80	61.00	174
Dez. 5.4	38.438	18	52.59	219	29.179	17	49.90	41	11.419	2	43.45	160	16.232	26	62.74	160
15.4	38.420	91	54.78	194	29.196	18	49.49	44	11.417	35	45.05	151	16.258	30	64.34	141
25.4	38.329	160	56.72	162	29.178	53	49.05	48	11.382	68	46.56	137	16.228	83	65.75	117
35.4	38.169		58.34		29.125		48.57		11.314		47.93		16.145		66.92	
Mittl. Ort	29.788		33.77		23.897		35.62		6.804		54.35		9.016		46.89	
sec δ, tg δ	1.980		+1.708		1.025		+0.225		1.015		−0.172		1.481		+1.092	

*) Die jährliche Parallaxe (0.″32) ist bereits berücksichtigt

Mittlere Zeit Greenw.	134) ν Persei				138) 5 H. Camelop.				139) η Tauri				141) β Reticuli			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	3h 39m		+42° 19′		3h 41m		+71° 4′		3h 42m		+23° 51′		3h 43m		−65° 3′	
Jan. 0.4	43.905	93	35.19	80	52.47	31	77.70	198	42.305	63	25.68	0	13.06	38	54.39	214
10.3	43.812	137	35.99	54	52.16	41	79.68	154	42.242	100	25.68	11	12.68	44	56.53	162
20.3	43.675	176	36.53	26	51.75	49	81.22	106	42.142	132	25.57	22	12.24	48	58.15	107
30.3	43.499	205	36.79	4	51.26	56	82.28	53	42.010	156	25.35	34	11.76	52	59.22	49
Feb. 9.3	43.294	223	36.75	35	50.70	57	82.81	2	41.854	173	25.01	44	11.24	52	59.71	9
19.2	43.071	229	36.40	64	50.13	59	82.79	57	41.681	180	24.57	53	10.72	53	59.62	65
März 1.2	42.842	222	35.76	91	49.54	57	82.22	108	41.501	175	24.04	62	10.19	51	58.97	120
11.2	42.620	202	34.85	115	48.97	52	81.14	156	41.326	160	23.42	66	9.68	47	57.77	170
21.2	42.418	169	33.70	130	48.45	43	79.58	195	41.166	136	22.76	68	9.21	43	56.07	215
31.1	42.249	126	32.40	142	48.02	35	77.63	227	41.030	101	22.08	65	8.78	37	53.92	256
Apr. 10.1	42.123	74	30.98	148	47.67	22	75.36	250	40.929	59	21.43	59	8.41	30	51.36	291
20.1	42.049	17	29.50	146	47.45	11	72.86	263	40.870	14	20.84	49	8.11	22	48.45	318
30.0	42.032	43	28.04	139	47.34	2	70.23	266	40.856	36	20.35	36	7.89	13	45.27	338
Mai 10.0	42.075	105	26.65	125	47.36	16	67.57	259	40.892	87	19.99	20	7.76	4	41.89	351
20.0	42.180	163	25.40	107	47.52	28	64.98	244	40.979	135	19.79	1	7.72	5	38.38	356
30.0	42.343	219	24.33	85	47.80	40	62.54	224	41.114	180	19.78	17	7.77	14	34.82	352
Juni 8.9	42.562	267	23.48	61	48.20	51	60.30	194	41.294	221	19.95	36	7.91	23	31.30	339
18.9	42.829	308	22.87	34	48.71	60	58.36	160	41.515	255	20.31	55	8.14	31	27.91	318
28.9	43.137	342	22.53	7	49.31	68	56.76	123	41.770	284	20.86	71	8.45	39	24.73	287
Juli 8.9	43.479	367	22.46	19	49.99	74	55.53	81	42.054	304	21.57	85	8.84	44	21.86	249
18.8	43.846	383	22.65	45	50.73	78	54.72	40	42.358	317	22.42	96	9.28	49	19.37	204
28.8	44.229	391	23.10	69	51.51	81	54.32	3	42.675	324	23.38	103	9.77	53	17.33	151
Aug. 7.8	44.620	392	23.79	90	52.32	82	54.35	45	42.999	325	24.41	108	10.30	54	15.82	94
17.7	45.012	385	24.69	108	53.14	81	54.80	86	43.324	319	25.49	109	10.84	56	14.88	32
27.7	45.397	374	25.77	124	53.95	79	55.66	125	43.643	308	26.58	106	11.40	54	14.56	30
Sept. 6.7	45.771	355	27.01	137	54.74	76	56.91	161	43.951	294	27.64	101	11.94	51	14.86	93
16.7	46.126	334	28.38	147	55.50	72	58.52	194	44.245	275	28.65	94	12.45	47	15.79	153
26.6	46.460	308	29.85	154	56.22	66	60.46	224	44.520	254	29.59	86	12.92	42	17.32	209
Okt. 6.6	46.768	278	31.39	159	56.88	59	62.70	249	44.774	231	30.45	76	13.34	35	19.41	257
16.6	47.046	246	32.98	161	57.47	51	65.19	269	45.005	205	31.21	67	13.69	28	21.98	295
26.6	47.292	210	34.59	161	57.98	42	67.88	284	45.210	176	31.88	57	13.97	18	24.93	325
Nov. 5.5	47.502	170	36.20	158	58.40	32	70.72	292	45.386	145	32.45	47	14.15	10	28.18	340
15.5	47.672	126	37.78	153	58.72	22	73.64	295	45.531	111	32.92	40	14.25	1	31.58	345
25.5	47.798	81	39.31	144	58.94	10	76.59	288	45.642	75	33.32	31	14.26	9	35.03	336
Dez. 5.4	47.879	32	40.75	131	59.04	2	79.47	274	45.717	36	33.63	23	14.17	17	38.39	316
15.4	47.911	18	42.06	114	59.02	14	82.21	252	45.753	3	33.86	15	14.00	26	41.55	283
25.4	47.893	67	43.20	95	58.88	25	84.73	221	45.750	43	34.01	5	13.74	34	44.38	243
35.4	47.826		44.15		58.63		86.94		45.707		34.06		13.40		46.81	
Mittl. Ort	41.095		25.56		46.94		63.87		39.968		20.26		10.72		42.23	
sec δ, tg δ	1.352		+0.911		3.085		+2.918		1.093		+0.442		2.372		−2.151	

Mittlere Zeit Greenw.	140) τ^6 Eridani AR.		Dekl.		143) g Eridani AR.		Dekl.		146) γ Hydri AR.		Dekl.		144) ζ Persei AR.		Dekl.	
1919	$3^h\,43^m$		$-23°\,28'$		$3^h\,46^m$		$-36°\,26'$		$3^h\,48^m$		$-74°\,28'$		$3^h\,49^m$		$+31°\,38'$	
Jan. 0.4	23.625	96	83.30	175	27.282	131	50.11	203	31.73	66	87.97	212	4.712	66	45.65	36
10.4	23.529	129	85.05	145	27.151	167	52.14	165	31.07	74	90.09	159	4.646	106	46.01	20
20.3	23.400	156	86.50	112	26.984	197	53.79	121	30.33	82	91.68	102	4.540	141	46.21	2
30.3	23.244	178	87.62	75	26.787	221	55.00	76	29.51	86	92.70	45	4.399	169	46.23	16
Feb. 9.3	23.066	192	88.37	38	26.566	234	55.76	29	28.65	88	93.15	14	4.230	188	46.07	36
19.2	22.874	197	88.75	1	26.332	239	56.05	18	27.77	88	93.01	70	4.042	196	45.71	54
März 1.2	22.677	194	88.76	37	26.093	235	55.87	63	26.89	85	92.31	125	3.846	192	45.17	70
11.2	22.483	179	88.39	73	25.858	218	55.24	107	26.04	80	91.06	174	3.654	177	44.47	83
21.2	22.304	156	87.66	108	25.640	194	54.17	148	25.24	73	89.32	219	3.477	150	43.64	92
31.1	22.148	125	86.58	141	25.446	160	52.69	186	24.51	64	87.13	259	3.327	115	42.72	96
Apr. 10.1	22.023	87	85.17	171	25.286	119	50.83	220	23.87	53	84.54	293	3.212	71	41.76	96
20.1	21.936	45	83.46	197	25.167	72	48.63	249	23.34	41	81.61	319	3.141	21	40.80	91
30.1	21.891	2	81.49	221	25.095	21	46.14	273	22.93	28	78.42	339	3.120	32	39.89	80
Mai 10.0	21.893	50	79.28	240	25.074	31	43.41	290	22.65	14	75.03	351	3.152	85	39.09	67
20.0	21.943	97	76.88	252	25.105	84	40.51	302	22.51	1	71.52	354	3.237	137	38.42	49
30.0	22.040	142	74.36	261	25.189	134	37.49	306	22.50	14	67.98	350	3.374	186	37.93	30
Juni 8.9	22.182	183	71.75	260	25.323	182	34.43	302	22.64	28	64.48	336	3.560	230	37.63	10
18.9	22.365	219	69.15	255	25.505	223	31.41	291	22.92	40	61.12	314	3.790	267	37.53	12
28.9	22.584	250	66.60	243	25.728	259	28.50	272	23.32	52	57.98	283	4.057	297	37.65	32
Juli 8.9	22.834	273	64.17	222	25.987	288	25.78	245	23.84	62	55.15	244	4.354	321	37.97	51
18.8	23.107	291	61.95	196	26.275	310	23.33	210	24.46	71	52.71	198	4.675	336	38.48	68
28.8	23.398	300	59.99	163	26.585	324	21.23	169	25.17	77	50.73	146	5.011	345	39.16	82
Aug. 7.8	23.698	303	58.36	124	26.909	330	19.54	123	25.94	81	49.27	88	5.356	346	39.98	94
17.8	24.001	300	57.12	82	27.239	328	18.31	71	26.75	82	48.39	27	5.702	341	40.92	103
27.7	24.301	291	56.30	37	27.567	319	17.60	17	27.57	82	48.12	37	6.043	332	41.95	108
Sept. 6.7	24.592	275	55.93	11	27.886	303	17.43	37	28.39	78	48.49	98	6.375	317	43.03	110
16.7	24.867	257	56.04	58	28.189	282	17.80	91	29.17	72	49.47	159	6.692	299	44.13	112
26.6	25.124	233	56.62	102	28.471	256	18.71	143	29.89	63	51.06	213	6.991	278	45.25	110
Okt. 6.6	25.357	206	57.64	142	28.727	224	20.14	187	30.52	53	53.19	261	7.269	253	46.35	107
16.6	25.563	177	59.06	177	28.951	188	22.01	226	31.05	40	55.80	300	7.522	226	47.42	103
26.6	25.740	145	60.83	204	29.139	150	24.27	256	31.45	27	58.80	328	7.748	196	48.45	98
Nov. 5.5	25.885	111	62.87	224	29.289	110	26.83	277	31.72	11	62.08	343	7.944	163	49.43	92
15.5	25.996	74	65.11	234	29.399	66	29.60	287	31.83	3	65.51	347	8.107	126	50.35	86
25.5	26.070	38	67.45	236	29.465	22	32.47	285	31.80	19	68.98	337	8.233	86	51.21	79
Dez. 5.5	26.108	2	69.81	228	29.487	23	35.32	274	31.61	33	72.35	315	8.319	45	52.00	69
15.4	26.106	39	72.09	214	29.464	67	38.06	253	31.28	47	75.50	283	8.364	1	52.69	58
25.4	26.067	76	74.23	192	29.397	109	40.59	225	30.81	59	78.33	241	8.365	43	53.27	46
35.4	25.991		76.15		29.288		42.84		30.22		80.74		8.322		53.73	
Mittl. Ort	21.721		77.54		25.362		41.81		28.68		75.39		2.176		38.89	
sec δ, tg δ	1.090		−0.435		1.243		−0.739		3.739		−3.603		1.175		+0.616	

Mittlere Zeit Greenw.	145) 9 H. Camelop. AR.		145) Dekl.		147) ε Persei AR.		147) Dekl.		148) ξ Persei AR.		148) Dekl.		149) γ Eridani AR.		149) Dekl.	
1919	3h 50m		+60° 52′		3h 52m		+39° 46′		3h 53m		+35° 33′		3h 54m		−13° 43′	
Jan. 0.4	17.11	17	34.46	166	27.568	75	45.32	75	44.957	67	40.23	56	16.937	71	81.29	153
10.4	16.94	23	36.12	128	27.493	121	46.07	52	44.890	110	40.79	37	16.866	105	82.82	130
20.3	16.71	30	37.40	88	27.372	160	46.59	28	44.780	148	41.16	17	16.761	134	84.12	105
30.3	16.41	34	38.28	42	27.212	191	46.87	1	44.632	177	41.33	7	16.627	157	85.17	77
Feb. 9.3	16.07	36	38.70	5	27.021	212	46.88	26	44.455	198	41.26	29	16.470	174	85.94	48
19.2	15.71	38	38.65	51	26.809	221	46.62	53	44.257	207	40.97	51	16.296	181	86.42	19
März 1.2	15.33	36	38.14	95	26.588	217	46.09	78	44.050	204	40.46	72	16.115	179	86.61	11
11.2	14.97	34	37.19	136	26.371	201	45.31	99	43.846	189	39.74	89	15.936	168	86.50	40
21.2	14.63	28	35.83	170	26.170	171	44.32	115	43.657	161	38.85	102	15.768	147	86.10	69
31.1	14.35	23	34.13	196	25.999	132	43.17	126	43.496	125	37.83	110	15.621	118	85.41	97
Apr. 10.1	14.12	15	32.17	215	25.867	84	41.91	133	43.371	79	36.73	113	15.503	83	84.44	125
20.1	13.97	7	30.02	225	25.783	30	40.58	131	43.292	29	35.60	110	15.420	41	83.19	149
30.1	13.90	2	27.77	226	25.753	29	39.27	125	43.263	27	34.50	102	15.379	2	81.70	172
Mai 10.0	13.92	11	25.51	220	25.782	87	38.02	114	43.290	83	33.48	90	15.381	48	79.98	191
20.0	14.03	20	23.31	205	25.869	144	36.88	98	43.373	137	32.58	74	15.429	94	78.07	206
30.0	14.23	28	21.26	185	26.013	198	35.90	77	43.510	188	31.84	55	15.523	137	76.01	217
Juni 8.9	14.51	35	19.41	159	26.211	246	35.13	56	43.698	234	31.29	33	15.660	177	73.84	223
18.9	14.86	42	17.82	127	26.457	288	34.57	31	43.932	274	30.96	11	15.837	211	71.61	222
28.9	15.28	47	16.55	95	26.745	322	34.26	7	44.206	305	30.85	10	16.048	240	69.39	216
Juli 8.9	15.75	51	15.60	59	27.067	347	34.19	16	44.511	331	30.95	32	16.288	264	67.23	203
18.8	16.26	54	15.01	23	27.414	366	34.35	40	44.842	348	31.27	52	16.552	280	65.20	184
28.8	16.80	56	14.78	14	27.780	376	34.75	60	45.190	357	31.79	69	16.832	290	63.36	159
Aug. 7.8	17.36	57	14.92	49	28.156	379	35.35	80	45.547	360	32.48	85	17.122	293	61.77	129
17.8	17.93	56	15.41	84	28.535	375	36.15	95	45.907	357	33.33	96	17.415	291	60.48	94
27.7	18.49	56	16.25	115	28.910	365	37.10	109	46.264	347	34.29	106	17.706	284	59.54	56
Sept. 6.7	19.05	53	17.40	144	29.275	350	38.19	120	46.611	333	35.35	113	17.990	271	58.98	16
16.7	19.58	49	18.84	171	29.625	331	39.39	129	46.944	315	36.48	117	18.261	255	58.82	24
26.6	20.07	47	20.55	193	29.956	309	40.68	134	47.259	294	37.65	120	18.516	234	59.06	63
Okt. 6.6	20.54	42	22.48	214	30.265	282	42.02	138	47.553	269	38.85	120	18.750	212	59.69	100
16.6	20.96	37	24.62	229	30.547	252	43.40	140	47.822	240	40.05	119	18.962	186	60.69	131
26.6	21.33	32	26.91	241	30.799	219	44.80	140	48.062	209	41.24	117	19.148	157	62.00	157
Nov. 5.5	21.65	25	29.32	247	31.018	181	46.20	138	48.271	175	42.41	113	19.305	127	63.57	176
15.5	21.90	19	31.79	247	31.199	140	47.58	134	48.446	136	43.54	109	19.432	94	65.33	188
25.5	22.09	11	34.26	242	31.339	96	48.92	127	48.582	95	44.63	101	19.526	59	67.21	192
Dez. 5.5	22.20	3	36.68	231	31.435	49	50.19	117	48.677	50	45.64	92	19.585	22	69.13	190
15.4	22.23	5	38.99	211	31.484	0	51.36	104	48.727	4	46.56	81	19.607	14	71.03	180
25.4	22.18	12	41.10	185	31.484	49	52.40	87	48.731	43	47.37	66	19.593	52	72.83	164
35.4	22.06		42.95		31.435		53.27		48.688		48.03		19.541		74.47	
Mittl. Ort	13.08		22.62		24.778		37.15		42.294		33.00		14.956		77.51	
sec δ, tg δ	2.054		+1.795		1.301		+0.833		1.229		+0.715		1.029		−0.245	

Mittlere Zeit Greenw.	150) λ Tauri AR.		150) λ Tauri Dekl.		151) ν Tauri AR.		151) ν Tauri Dekl.		152) c Persei AR.		152) c Persei Dekl.		154) o¹ Eridani AR.		154) o¹ Eridani Dekl.	
	$3^h\ 56^m$		+12° 15′		$3^h\ 58^m$		+5° 45′		$4^h\ 2^m$		+47° 29′		$4^h\ 7^m$		−7° 2′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.4	13.618	51	46.65	50	52.882	50	55.93	79	49.656	83	59.59	115	56.701	54	55.29	135
10.4	13.567	86	46.15	51	52.832	86	55.14	73	49.573	136	60.74	89	56.647	89	56.64	117
20.3	13.481	118	45.64	48	52.746	116	54.41	66	49.437	183	61.63	59	56.558	121	57.81	97
30.3	13.363	144	45.16	48	52.630	142	53.75	57	49.254	221	62.22	26	56.437	146	58.78	76
Feb. 9.3	13.219	161	44.68	45	52.488	160	53.18	47	49.033	246	62.48	8	56.291	165	59.54	53
19.3	13.058	170	44.23	41	52.328	169	52.71	37	48.787	259	62.40	42	56.126	175	60.07	30
März 1.2	12.888	169	43.82	38	52.159	168	52.34	26	48.528	256	61.98	75	55.951	176	60.37	7
11.2	12.719	157	43.44	31	51.991	157	52.08	14	48.272	238	61.23	104	55.775	166	60.44	18
21.2	12.562	137	43.13	23	51.834	137	51.94	0	48.034	208	60.19	129	55.609	148	60.26	43
31.1	12.425	106	42.90	12	51.697	108	51.94	15	47.826	165	58.90	148	55.461	122	59.83	66
Apr. 10.1	12.319	69	42.78	1	51.589	73	52.09	31	47.661	112	57.42	160	55.339	87	59.17	89
20.1	12.250	27	42.77	14	51.516	31	52.40	49	47.549	52	55.82	166	55.252	47	58.28	113
30.1	12.223	18	42.91	30	51.485	13	52.89	66	47.497	13	54.16	164	55.205	4	57.15	134
Mai 10.0	12.241	66	43.21	46	51.498	58	53.55	84	47.510	80	52.52	156	55.201	41	55.81	152
20.0	12.307	111	43.67	64	51.556	104	54.39	100	47.590	143	50.96	143	55.242	85	54.29	169
30.0	12.418	155	44.31	79	51.660	147	55.39	116	47.733	204	49.53	125	55.327	129	52.60	182
Juni 9.0	12.573	194	45.10	93	51.807	185	56.55	127	47.937	260	48.28	103	55.456	168	50.78	190
18.9	12.767	228	46.03	106	51.992	219	57.82	136	48.197	309	47.25	78	55.624	203	48.88	193
28.9	12.995	255	47.09	114	52.211	247	59.18	141	48.506	348	46.47	50	55.827	232	46.95	192
Juli 8.9	13.250	277	48.23	120	52.458	269	60.59	142	48.854	380	45.97	24	56.059	256	45.03	183
18.8	13.527	292	49.43	121	52.727	284	62.01	138	49.234	403	45.73	4	56.315	273	43.20	170
28.8	13.819	301	50.64	118	53.011	293	63.39	130	49.637	417	45.77	30	56.588	285	41.50	151
Aug. 7.8	14.120	303	51.82	111	53.304	295	64.69	117	50.054	424	46.07	55	56.873	290	39.99	127
17.8	14.423	300	52.93	101	53.599	293	65.86	100	50.478	422	46.62	78	57.163	289	38.72	99
27.7	14.723	291	53.94	88	53.892	286	66.86	80	50.900	413	47.40	99	57.452	283	37.73	66
Sept. 6.7	15.014	280	54.82	70	54.178	275	67.66	57	51.313	400	48.39	117	57.735	273	37.07	32
16.7	15.294	265	55.52	53	54.453	259	68.23	33	51.713	381	49.56	133	58.008	259	36.75	4
26.7	15.559	245	56.05	35	54.712	242	68.56	9	52.094	357	50.89	147	58.267	242	36.79	38
Okt. 6.6	15.804	225	56.40	16	54.954	220	68.65	14	52.451	328	52.36	158	58.509	222	37.17	71
16.6	16.029	201	56.56	1	55.174	198	68.51	35	52.779	295	53.94	166	58.731	198	37.88	100
26.6	16.230	175	56.55	15	55.372	172	68.16	53	53.074	259	55.60	172	58.929	172	38.88	124
Nov. 5.5	16.405	147	56.40	27	55.544	143	67.63	67	53.333	215	57.32	175	59.101	144	40.12	142
15.5	16.552	115	56.13	37	55.687	113	66.96	78	53.548	169	59.07	174	59.245	111	41.54	155
25.5	16.667	82	55.76	44	55.800	79	66.18	84	53.717	117	60.81	170	59.356	79	43.09	161
Dez. 5.5	16.749	45	55.32	48	55.879	44	65.34	86	53.834	63	62.51	161	59.435	42	44.70	160
15.4	16.794	7	54.84	50	55.923	6	64.48	86	53.897	4	64.12	148	59.477	4	46.30	154
25.4	16.801	31	54.34	51	55.929	31	63.62	83	53.901	52	65.60	129	59.481	33	47.84	143
35.4	16.770		53.83		55.898		62.79		53.849		66.89		59.448		49.27	
Mittl. Ort	11.407		44.62		50.738		55.48		46.493		50.87		54.633		52.67	
sec δ, tg δ	1.023		+0.217		1.005		+0.101		1.480		+1.091		1.008		−0.124	

Mittlere Zeit Greenw.	155) α Horologii				156) α Reticuli				160) υ⁴ Eridani				162) δ Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	4h 11m		−42° 29′		4h 13m		−62° 40′		4h 14m		−33° 59′		4h 18m		+17° 21′	
Jan. 0.4	21.005	137	45.93	236	25.11	30	45.83	251	51.691	101	51.44	222	18.038	34	14.74	27
10.4	20.868	180	48.29	196	24.81	36	48.34	204	51.590	141	53.66	188	18.004	74	14.47	29
20.4	20.688	216	50.25	152	24.45	42	50.38	152	51.449	176	55.54	148	17.930	110	14.18	30
30.3	20.472	245	51.77	103	24.03	46	51.90	97	51.273	205	57.02	104	17.820	140	13.88	34
Febr. 9.3	20.227	266	52.80	53	23.57	48	52.87	40	51.068	224	58.06	60	17.680	162	13.54	35
19.3	19.961	275	53.33	3	23.09	49	53.27	17	50.844	235	58.66	14	17.518	175	13.19	38
März 1.2	19.686	274	53.36	47	22.60	49	53.10	72	50.609	235	58.80	31	17.343	178	12.81	39
11.2	19.412	262	52.89	95	22.11	46	52.38	125	50.374	225	58.49	74	17.165	170	12.42	38
21.2	19.150	238	51.94	139	21.65	43	51.13	174	50.149	205	57.75	117	16.995	150	12.04	36
31.2	18.912	207	50.55	181	21.22	38	49.39	218	49.944	177	56.58	156	16.845	123	11.68	31
Apr. 10.1	18.705	165	48.74	219	20.84	32	47.21	256	49.767	139	55.02	191	16.722	88	11.37	24
20.1	18.540	118	46.55	251	20.52	25	44.65	290	49.628	96	53.11	222	16.634	45	11.13	14
30.1	18.422	66	44.04	278	20.27	18	41.75	317	49.532	47	50.89	250	16.589	0	10.99	1
Mai 10.1	18.356	10	41.26	299	20.09	9	38.58	336	49.485	2	48.39	271	16.589	47	10.98	11
20.0	18.346	46	38.27	313	20.00	1	35.22	347	49.487	54	45.68	286	16.636	95	11.09	27
30.0	18.392	102	35.14	319	19.99	8	31.75	350	49.541	103	42.82	295	16.731	140	11.36	42
Juni 9.0	18.494	154	31.95	317	20.07	16	28.25	344	49.644	151	39.87	296	16.871	180	11.78	57
18.9	18.648	202	28.78	308	20.23	24	24.81	329	49.795	194	36.91	289	17.051	217	12.35	69
28.9	18.850	245	25.70	289	20.47	31	21.52	306	49.989	232	34.02	275	17.268	248	13.04	80
Juli 8.9	19.095	281	22.81	263	20.78	37	18.46	273	50.221	263	31.27	252	17.516	273	13.84	89
18.9	19.376	310	20.18	228	21.15	43	15.73	233	50.484	288	28.75	223	17.789	290	14.73	94
28.8	19.686	332	17.90	187	21.58	46	13.40	184	50.772	306	26.52	185	18.079	301	15.67	94
Aug. 7.8	20.018	343	16.03	138	22.04	50	11.56	130	51.078	316	24.67	142	18.380	308	16.61	93
17.8	20.361	349	14.65	85	22.54	51	10.26	70	51.394	321	23.25	93	18.688	308	17.54	88
27.7	20.710	345	13.80	28	23.05	51	9.56	8	51.715	317	22.32	41	18.996	303	18.42	78
Sept. 6.7	21.055	335	13.52	30	23.56	49	9.48	55	52.032	307	21.91	14	19.299	294	19.20	68
16.7	21.390	316	13.82	88	24.05	47	10.03	118	52.339	292	22.05	67	19.593	282	19.88	55
26.7	21.706	292	14.70	143	24.52	43	11.21	178	52.631	272	22.72	120	19.875	267	20.43	42
Okt. 6.6	21.998	261	16.13	194	24.95	37	12.99	231	52.903	245	23.92	168	20.142	248	20.85	28
16.6	22.259	225	18.07	238	25.32	32	15.30	276	53.148	215	25.60	209	20.390	227	21.13	16
26.6	22.484	184	20.45	273	25.64	23	18.06	312	53.363	180	27.69	244	20.617	201	21.29	4
Nov. 5.6	22.668	139	23.18	297	25.87	16	21.18	337	53.543	143	30.13	268	20.818	174	21.33	5
15.5	22.807	92	26.15	311	26.03	8	24.55	348	53.686	102	32.81	283	20.992	143	21.28	13
25.5	22.899	42	29.26	314	26.11	1	28.03	348	53.788	58	35.64	288	21.135	107	21.15	18
Dez. 5.5	22.941	10	32.40	305	26.10	9	31.51	335	53.846	14	38.52	281	21.242	70	20.97	21
15.4	22.931	60	35.45	286	26.01	18	34.86	311	53.860	32	41.33	266	21.312	30	20.76	24
25.4	22.871	109	38.31	257	25.83	26	37.97	277	53.828	76	43.99	241	21.342	12	20.52	26
35.4	22.762		40.88		25.57		40.74		53.752		46.40		21.330		20.26	
Mittl. Ort	18.935		36.95		22.63		34.74		49.652		43.75		15.670		12.75	
sec δ, tg δ	1.356		−0.916		2.179		−1.935		1.206		−0.674		1.048		+0.312	

Mittlere Zeit Greenw.	164) ε Tauri AR.		164) ε Tauri Dekl.		168) α Tauri AR.		168) α Tauri Dekl.		171) α Doradus AR.		171) α Doradus Dekl.		169) ν Eridani AR.		169) ν Eridani Dekl.	
1919	4h 23m	Diff.	+19° 0'	Diff.	4h 31m	Diff.	+16° 20'	Diff.	4h 32m	Diff.	−55° 12'	Diff.	4h 32m	Diff.	−3° 30'	Diff.
Jan. 0.4	55.492s	30	8.63"	19	18.636s	24	52.05"	33	17.128s	194	52.60"	270	18.413s	33	64.44"	128
10.4	55.462	70	8.44	21	18.612	65	51.72	32	16.934	251	55.30	227	18.380	71	65.72	113
20.4	55.392	108	8.23	24	18.547	102	51.40	33	16.683	300	57.57	180	18.309	107	66.85	97
30.3	55.284	139	7.99	28	18.445	135	51.07	33	16.383	340	59.37	127	18.202	136	67.82	79
Feb. 9.3	55.145	162	7.71	32	18.310	158	50.74	34	16.043	368	60.64	73	18.066	159	68.61	59
19.3	54.983	177	7.39	36	18.152	175	50.40	34	15.675	383	61.37	19	17.907	173	69.20	38
März 1.2	54.806	181	7.03	38	17.977	179	50.06	35	15.292	385	61.56	37	17.734	178	69.58	18
11.2	54.625	173	6.65	40	17.798	173	49.71	33	14.907	373	61.19	89	17.556	173	69.76	3
21.2	54.452	155	6.25	39	17.625	157	49.38	31	14.534	350	60.30	138	17.383	158	69.73	25
31.2	54.297	127	5.86	37	17.468	131	49.07	25	14.184	313	58.92	185	17.225	134	69.48	46
Apr. 10.1	54.170	93	5.49	30	17.337	97	48.82	19	13.871	266	57.07	226	17.091	102	69.02	67
20.1	54.077	50	5.19	22	17.240	57	48.63	9	13.605	212	54.81	263	16.989	65	68.35	88
30.1	54.027	5	4.97	12	17.183	12	48.54	2	13.393	149	52.18	293	16.924	23	67.47	108
Mai 10.1	54.022	43	4.85	2	17.171	35	48.56	16	13.244	82	49.25	316	16.901	22	66.39	127
20.0	54.065	90	4.87	16	17.206	81	48.72	29	13.162	13	46.09	331	16.923	66	65.12	143
30.0	54.155	136	5.03	30	17.287	126	49.01	43	13.149	57	42.78	341	16.989	109	63.69	156
Juni 9.0	54.291	178	5.33	44	17.413	168	49.44	57	13.206	124	39.37	339	17.098	149	62.13	166
18.9	54.469	215	5.77	58	17.581	205	50.01	68	13.330	189	35.98	330	17.247	185	60.47	171
28.9	54.684	246	6.35	70	17.786	236	50.69	79	13.519	248	32.68	312	17.432	216	58.76	172
Juli 8.9	54.930	271	7.05	78	18.022	263	51.48	85	13.767	301	29.56	284	17.648	242	57.04	168
18.9	55.201	291	7.83	85	18.285	282	52.33	90	14.068	345	26.72	248	17.890	262	55.36	157
28.8	55.492	302	8.68	87	18.567	295	53.23	89	14.413	380	24.24	204	18.152	277	53.79	142
Aug. 7.8	55.794	310	9.55	86	18.862	303	54.12	87	14.793	405	22.20	153	18.429	284	52.37	121
17.8	56.104	310	10.41	83	19.165	305	54.99	80	15.198	421	20.67	98	18.713	287	51.16	97
27.7	56.414	307	11.24	76	19.470	303	55.79	71	15.619	425	19.69	36	19.000	286	50.19	68
Sept. 6.7	56.721	299	12.00	66	19.773	296	56.50	59	16.044	419	19.33	26	19.286	279	49.51	37
16.7	57.020	287	12.66	56	20.069	285	57.09	45	16.463	401	19.59	90	19.565	269	49.14	4
26.7	57.307	273	13.22	43	20.354	272	57.54	31	16.864	375	20.49	149	19.834	255	49.10	28
Okt. 6.6	57.580	254	13.65	32	20.626	256	57.85	17	17.239	338	21.98	205	20.089	239	49.38	59
16.6	57.834	234	13.97	21	20.882	235	58.02	4	17.577	293	24.03	254	20.328	218	49.97	87
26.6	58.068	209	14.18	10	21.117	212	58.06	8	17.870	240	26.57	294	20.546	195	50.84	110
Nov. 5.6	58.277	181	14.28	2	21.329	185	57.98	17	18.110	180	29.51	324	20.741	169	51.94	129
15.5	58.458	150	14.30	4	21.514	155	57.81	23	18.290	116	32.75	341	20.910	138	53.23	142
25.5	58.608	115	14.26	9	21.669	120	57.58	29	18.406	49	36.16	346	21.048	105	54.65	148
Dez. 5.5	58.723	77	14.17	13	21.789	82	57.29	31	18.455	20	39.62	339	21.153	68	56.13	149
15.4	58.800	35	14.04	15	21.871	41	56.98	32	18.435	90	43.01	321	21.221	29	57.62	145
25.4	58.835	6	13.89	17	21.912	1	56.66	32	18.345	155	46.22	292	21.250	11	59.07	135
35.4	58.829		13.72		21.911		56.34		18.190		49.14		21.239		60.42	
Mittl. Ort	53.078		6.63		16.242		50.96		14.760		42.69		16.239		61.86	
sec δ, tg δ	1.058		+0.344		1.042		+0.293		1.753		−1.439		1.002		−0.062	

Mittlere Zeit Greenw.	172) 53 Eridani				174) τ Tauri				173) Gr. 848				175) 4 Camelop.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	4h 34m		−14° 27′		4h 37m		+22° 48′		4h 37m		+75° 47′		4h 41m		+56° 36′	
Jan. 0.4	30.302	44	46.29	176	25.407	19	11.30	1	62.25	27	54.90	252	18.905	63	59.88	175
10.4	30.258	82	48.05	153	25.388	63	11.31	2	61.98	41	57.42	220	18.842	135	61.63	151
20.4	30.176	118	49.58	128	25.325	103	11.29	8	61.57	56	59.62	178	18.707	202	63.14	121
30.3	30.058	149	50.86	100	25.222	137	11.21	14	61.01	67	61.40	130	18.505	257	64.35	85
Feb. 9.3	29.909	171	51.86	70	25.085	164	11.07	21	60.34	75	62.70	78	18.248	299	65.20	46
19.3	29.738	185	52.56	40	24.921	181	10.86	29	59.59	79	63.48	21	17.949	326	65.66	4
März 1.3	29.553	191	52.96	9	24.740	187	10.57	35	58.80	81	63.69	36	17.623	334	65.70	37
11.2	29.362	185	53.05	22	24.553	182	10.22	41	57.99	78	63.33	89	17.289	324	65.33	77
21.2	29.177	170	52.83	52	24.371	166	9.81	45	57.21	71	62.44	141	16.965	297	64.56	113
31.2	29.007	147	52.31	82	24.205	139	9.36	47	56.50	62	61.03	184	16.668	254	63.43	144
Apr. 10.1	28.860	115	51.49	109	24.066	105	8.89	44	55.88	50	59.19	221	16.414	198	61.99	169
20.1	28.745	77	50.40	136	23.961	63	8.45	40	55.38	35	56.98	249	16.216	131	60.30	188
30.1	28.668	35	49.04	160	23.898	17	8.05	32	55.03	19	54.49	267	16.085	57	58.42	198
Mai 10.1	28.633	9	47.44	181	23.881	31	7.73	22	54.84	3	51.82	276	16.028	21	56.44	201
20.0	28.642	54	45.63	198	23.912	79	7.51	10	54.81	14	49.06	277	16.049	99	54.43	197
30.0	28.696	98	43.65	210	23.991	127	7.41	3	54.95	31	46.29	268	16.148	175	52.46	187
Juni 9.0	28.794	140	41.55	218	24.118	169	7.44	17	55.26	46	43.61	252	16.323	245	50.59	172
19.0	28.934	177	39.37	221	24.287	209	7.61	31	55.72	60	41.09	228	16.568	310	48.87	151
28.9	29.111	210	37.16	216	24.496	242	7.92	43	56.32	73	38.81	200	16.878	366	47.36	127
Juli 8.9	29.321	238	35.00	205	24.738	269	8.35	54	57.05	83	36.81	166	17.244	412	46.09	100
18.9	29.559	259	32.95	189	25.007	290	8.89	62	57.88	92	35.15	129	17.656	450	45.09	72
28.8	29.818	274	31.06	165	25.297	305	9.51	67	58.80	99	33.86	90	18.106	478	44.37	42
Aug. 7.8	30.092	285	29.41	136	25.602	313	10.18	70	59.79	104	32.96	48	18.584	496	43.95	13
17.8	30.377	289	28.05	102	25.915	318	10.88	69	60.83	107	32.48	7	19.080	506	43.82	17
27.8	30.666	288	27.03	64	26.233	315	11.57	67	61.90	108	32.41	35	19.586	508	43.99	45
Sept. 6.7	30.954	282	26.39	23	26.548	310	12.24	61	62.98	107	32.76	76	20.094	502	44.44	72
16.7	31.236	272	26.16	19	26.858	300	12.85	54	64.05	103	33.52	116	20.596	488	45.16	97
26.7	31.508	258	26.35	59	27.158	287	13.39	47	65.08	99	34.68	154	21.084	468	46.13	121
Okt. 6.7	31.766	240	26.94	99	27.445	270	13.86	38	66.07	93	36.22	188	21.552	441	47.34	144
16.6	32.006	219	27.93	134	27.715	251	14.24	30	67.00	84	38.10	220	21.993	408	48.78	163
26.6	32.225	193	29.27	163	27.966	227	14.54	24	67.84	74	40.30	248	22.401	366	50.41	179
Nov. 5.6	32.418	166	30.90	185	28.193	199	14.78	18	68.58	62	42.78	270	22.767	318	52.20	193
15.5	32.584	133	32.75	201	28.392	168	14.96	13	69.20	49	45.48	286	23.085	262	54.13	203
25.5	32.717	98	34.76	209	28.560	133	15.09	11	69.69	33	48.34	294	23.347	199	56.16	208
Dez. 5.5	32.815	60	36.85	208	28.693	93	15.20	9	70.02	17	51.28	296	23.546	129	58.24	208
15.5	32.875	20	38.93	200	28.786	50	15.29	6	70.19	0	54.24	287	23.675	56	60.32	201
25.4	32.895	21	40.93	187	28.836	5	15.35	3	70.19	16	57.11	269	23.731	21	62.33	187
35.4	32.874		42.80		28.841		15.38		70.03		59.80		23.710		64.20	
Mittl. Ort	28.183		41.77		22.880		9.42		54.41		46.35		14.945		53.41	
sec δ, tg δ	1.033		−0.258		1.085		+0.420		4.075		+3.951		1.817		+1.517	

Mittlere Zeit Greenw.	178) 9 Camelop. AR.		Dekl.		180) π⁵ Orionis AR.		Dekl.		181) ι Aurigae AR.		Dekl.		183) ε Aurigae AR.		Dekl.	
	$4^h 45^m$		+66° 12′		$4^h 50^m$		+2° 18′		$4^h 51^m$		+33° 2′		$4^h 56^m$		+43° 42′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.4	64.34	11	32.07	220	4.121	14	30.08	105	45.787	9	23.08	58	12.393	13	20.56	116
10.4	64.23	20	34.27	193	4.107	55	29.03	95	45.778	59	23.66	49	12.380	72	21.72	102
20.4	64.03	30	36.20	157	4.052	94	28.08	83	45.719	106	24.15	37	12.308	126	22.74	82
30.3	63.73	37	37.77	116	3.958	126	27.25	68	45.613	146	24.52	23	12.182	172	23.56	60
Feb. 9.3	63.36	42	38.93	70	3.832	151	26.57	54	45.467	177	24.75	6	12.010	210	24.16	33
19.3	62.94	46	39.63	22	3.681	170	26.03	40	45.290	199	24.81	11	11.800	235	24.49	5
März 1.3	62.48	48	39.85	29	3.511	177	25.63	25	45.091	208	24.70	29	11.565	246	24.54	24
11.2	62.00	46	39.56	76	3.334	175	25.38	9	44.883	206	24.41	47	11.319	244	24.30	52
21.2	61.54	42	38.80	121	3.159	162	25.29	7	44.677	190	23.94	61	11.075	226	23.78	78
31.2	61.12	37	37.59	160	2.997	141	25.36	23	44.487	163	23.33	72	10.849	196	23.00	100
Apr. 10.2	60.75	29	35.99	192	2.856	111	25.59	40	44.324	127	22.61	81	10.653	156	22.00	116
20.1	60.46	21	34.07	216	2.745	75	25.99	57	44.197	83	21.80	85	10.497	105	20.84	129
30.1	60.25	11	31.91	233	2.670	34	26.56	74	44.114	35	20.95	84	10.392	50	19.55	136
Mai 10.1	60.14	1	29.58	240	2.636	10	27.30	91	44.079	18	20.11	80	10.342	10	18.19	136
20.0	60.13	10	27.18	241	2.646	54	28.21	106	44.097	71	19.31	73	10.352	70	16.83	132
30.0	60.23	20	24.77	232	2.700	98	29.27	119	44.168	122	18.58	61	10.422	129	15.51	123
Juni 9.0	60.43	30	22.45	218	2.798	137	30.46	130	44.290	170	17.97	48	10.551	185	14.28	111
19.0	60.73	38	20.27	197	2.935	175	31.76	137	44.460	213	17.49	34	10.736	234	13.17	94
28.9	61.11	46	18.30	171	3.110	207	33.13	141	44.673	251	17.15	18	10.970	279	12.23	77
Juli 8.9	61.57	53	16.59	143	3.317	233	34.54	139	44.924	283	16.97	4	11.249	316	11.46	58
18.9	62.10	58	15.16	109	3.550	256	35.93	134	45.207	307	16.93	10	11.565	346	10.88	37
28.9	62.68	63	14.07	76	3.806	271	37.27	123	45.514	326	17.03	22	11.911	368	10.51	18
Aug. 7.8	63.31	65	13.31	41	4.077	281	38.50	108	45.840	338	17.25	34	12.279	384	10.33	1
17.8	63.96	67	12.90	4	4.358	287	39.58	89	46.178	344	17.59	43	12.663	393	10.34	19
27.8	64.63	67	12.86	31	4.645	288	40.47	65	46.522	346	18.02	49	13.056	396	10.53	36
Sept. 6.7	65.30	67	13.17	65	4.933	284	41.12	40	46.868	342	18.51	55	13.452	394	10.89	52
16.7	65.97	66	13.82	99	5.217	277	41.52	13	47.210	334	19.06	58	13.846	385	11.41	66
26.7	66.63	63	14.81	131	5.494	266	41.65	15	47.544	323	19.64	61	14.231	373	12.07	79
Okt. 6.7	67.26	59	16.12	160	5.760	251	41.50	41	47.867	307	20.25	62	14.604	355	12.86	91
16.6	67.85	55	17.72	187	6.011	234	41.09	65	48.174	287	20.87	64	14.959	333	13.77	102
26.6	68.40	49	19.59	210	6.245	214	40.44	86	48.461	263	21.51	66	15.292	305	14.79	112
Nov. 5.6	68.89	42	21.69	230	6.459	188	39.58	102	48.724	234	22.17	67	15.597	272	15.91	120
15.6	69.31	34	23.99	245	6.647	159	38.56	113	48.958	200	22.84	69	15.869	232	17.11	127
25.5	69.65	26	26.44	252	6.806	127	37.43	120	49.158	161	23.53	69	16.101	185	18.38	131
Dez. 5.5	69.91	16	28.96	255	6.933	89	36.23	121	49.319	117	24.22	69	16.286	134	19.69	132
15.5	70.07	5	31.51	248	7.022	51	35.02	118	49.436	68	24.91	67	16.420	79	21.01	130
25.4	70.12	4	33.99	233	7.073	9	33.84	111	49.504	19	25.58	62	16.499	19	22.31	123
35.4	70.08		36.32		7.082		32.73		49.523		26.20		16.518		23.54	
Mittl. Ort	59.18		25.12		1.848		32.24		42.973		20.60		9.182		17.02	
sec δ, tg δ	2.479		+2.268		1.001		+0.040		1.193		+0.650		1.383		+0.956	

Mittlere Zeit Greenw.	182) 10 Camelop. AR.		182) Dekl.		184) ι Tauri AR.		184) Dekl.		185) η Aurigae AR.		185) Dekl.		186) ε Leporis AR.		186) Dekl.	
1919	$4^h 56^m$		+60° 19′		$4^h 58^m$		+21° 28′		$5^h 0^m$		+41° 7′		$5^h 2^m$		−22° 28′	
Jan. 0.4	16.75	5	37.29	199	17.713	0	31.78	6	53.017	5	37.22	103	4.088	34	50.34	221
10.4	16.70	14	39.28	176	17.713	46	31.72	6	53.012	62	38.25	91	4.054	77	52.55	196
20.4	16.56	21	41.04	145	17.667	88	31.66	8	52.950	114	39.16	75	3.977	117	54.51	165
30.3	16.35	28	42.49	111	17.579	126	31.58	12	52.836	161	39.91	54	3.860	152	56.16	132
Feb. 9.3	16.07	33	43.60	70	17.453	156	31.46	16	52.675	197	40.45	31	3.708	179	57.48	96
19.3	15.74	36	44.30	26	17.297	176	31.30	21	52.478	223	40.76	5	3.529	199	58.44	59
März 1.3	15.38	38	44.56	19	17.121	187	31.09	26	52.255	235	40.81	21	3.330	208	59.03	21
11.2	15.00	37	44.37	61	16.934	185	30.83	31	52.020	233	40.60	47	3.122	207	59.24	17
21.2	14.63	35	43.76	103	16.749	173	30.52	35	51.787	218	40.13	69	2.915	195	59.07	53
31.2	14.28	30	42.73	138	16.576	150	30.17	35	51.569	191	39.44	90	2.720	176	58.54	88
Apr. 10.2	13.98	25	41.35	168	16.426	119	29.82	35	51.378	152	38.54	105	2.544	147	57.66	122
20.1	13.73	17	39.67	191	16.307	80	29.47	31	51.226	104	37.49	116	2.397	111	56.44	152
30.1	13.56	10	37.76	207	16.227	36	29.16	24	51.122	51	36.33	123	2.286	71	54.92	180
Mai 10.1	13.46	1	35.69	215	16.191	11	28.92	17	51.071	5	35.10	122	2.215	26	53.12	205
20.0	13.45	8	33.54	215	16.202	59	28.75	6	51.076	64	33.88	119	2.189	19	51.07	224
30.0	13.53	16	31.39	208	16.261	105	28.69	6	51.140	120	32.69	110	2.208	65	48.83	239
Juni 9.0	13.69	23	29.31	197	16.366	148	28.75	17	51.260	174	31.59	98	2.273	108	46.44	247
19.0	13.92	31	27.34	178	16.514	188	28.92	28	51.434	222	30.61	84	2.381	149	43.97	249
28.9	14.23	38	25.56	156	16.702	223	29.20	39	51.656	265	29.77	67	2.530	186	41.48	245
Juli 8.9	14.61	43	24.00	130	16.925	251	29.59	47	51.921	301	29.10	49	2.716	217	39.03	233
18.9	15.04	48	22.70	102	17.176	275	30.06	54	52.222	331	28.61	32	2.933	244	36.70	213
28.9	15.52	51	21.68	72	17.451	293	30.60	58	52.553	352	28.29	14	3.177	265	34.57	187
Aug. 7.8	16.03	54	20.96	41	17.744	304	31.18	58	52.905	369	28.15	3	3.442	280	32.70	154
17.8	16.57	55	20.55	10	18.048	310	31.76	57	53.274	377	28.18	19	3.722	291	31.16	115
27.8	17.12	56	20.45	21	18.358	313	32.33	52	53.651	381	28.37	33	4.013	294	30.01	72
Sept. 6.7	17.68	56	20.66	51	18.671	310	32.85	45	54.032	380	28.70	46	4.307	293	29.29	26
16.7	18.24	54	21.17	80	18.981	304	33.30	38	54.412	372	29.16	58	4.600	288	29.03	23
26.7	18.78	53	21.97	108	19.285	294	33.68	29	54.784	361	29.74	69	4.888	277	29.26	71
Okt. 6.7	19.31	50	23.05	135	19.579	280	33.97	20	55.145	346	30.43	78	5.165	263	29.97	117
16.6	19.81	47	24.40	157	19.859	264	34.17	11	55.491	325	31.21	88	5.428	243	31.14	158
26.6	20.28	43	25.97	179	20.123	243	34.28	5	55.816	299	32.09	95	5.671	219	32.72	195
Nov. 5.6	20.71	37	27.76	198	20.366	218	34.33	0	56.115	267	33.04	104	5.890	190	34.67	222
15.6	21.08	31	29.74	211	20.584	187	34.33	4	56.382	230	34.08	109	6.080	158	36.89	242
25.5	21.39	24	31.85	220	20.771	153	34.29	5	56.612	186	35.17	114	6.238	120	39.31	254
Dez. 5.5	21.63	17	34.05	224	20.924	114	34.24	5	56.798	138	36.31	116	6.358	80	41.85	255
15.5	21.80	8	36.29	221	21.038	70	34.19	5	56.936	83	37.47	114	6.438	37	44.40	248
25.4	21.88	1	38.50	209	21.108	26	34.14	5	57.019	27	38.61	109	6.475	8	46.88	233
35.4	21.87		40.59		21.134		34.09		57.046		39.70		6.467		49.21	
Mittl. Ort	12.36		31.93		15.155		31.41		49.902		34.40		1.905		44.47	
sec δ, tg δ	2.020		+1.755		1.075		+0.393		1.328		+0.873		1.082		−0.414	

Mittlere Zeit Greenw.	188) β Eridani				192) μ Aurigae				191) 19 H. Camelop.				194) β Orionis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$5^h\ 3^m$		−5° 11′		$5^h\ 7^m$		+38° 23′		$5^h\ 9^m$		+79° 8′		$5^h\ 10^m$		−8° 17′	
Jan. 0.4	54.266	9	28.50	147	56.009	6	25.20	89	20.96	22	33.83	279	40.899	6	43.70	165
10.4	54.257	51	29.97	132	56.015	51	26.09	80	20.74	44	36.62	254	40.893	49	45.35	147
20.4	54.206	90	31.29	112	55.964	102	26.89	67	20.30	64	39.16	217	40.844	89	46.82	126
30.4	54.116	125	32.41	92	55.862	148	27.56	49	19.66	81	41.33	174	40.755	124	48.08	103
Feb. 9.3	53.991	152	33.33	71	55.714	186	28.05	30	18.85	94	43.07	123	40.631	153	49.11	78
19.3	53.839	172	34.04	48	55.528	211	28.35	7	17.91	103	44.30	67	40.478	174	49.89	53
März 1.3	53.667	182	34.52	26	55.317	225	28.42	16	16.88	108	44.97	9	40.304	185	50.42	28
11.2	53.485	182	34.78	2	55.092	225	28.26	39	15.80	106	45.06	48	40.119	185	50.70	2
21.2	53.303	172	34.80	19	54.867	211	27.87	60	14.74	101	44.58	103	39.934	177	50.72	24
31.2	53.131	152	34.61	42	54.656	187	27.27	78	13.73	91	43.55	154	39.757	158	50.48	48
Apr. 10.2	52.979	124	34.19	65	54.469	150	26.49	92	12.82	77	42.01	197	39.599	130	50.00	73
20.1	52.855	89	33.54	86	54.319	106	25.57	102	12.05	60	40.04	233	39.469	97	49.27	96
30.1	52.766	51	32.68	106	54.213	55	24.55	107	11.45	42	37.71	259	39.372	59	48.31	118
Mai 10.1	52.715	8	31.62	126	54.158	1	23.48	108	11.03	20	35.12	278	39.313	16	47.13	139
20.1	52.707	36	30.36	142	54.157	54	22.40	103	10.83	0	32.34	287	39.297	27	45.74	156
30.0	52.743	78	28.94	155	54.211	109	21.37	97	10.83	22	29.47	286	39.324	70	44.18	169
Juni 9.0	52.821	119	27.39	166	54.320	160	20.40	85	11.05	42	26.61	278	39.394	110	42.49	180
19.0	52.940	157	25.73	171	54.480	208	19.55	73	11.47	62	23.83	261	39.504	149	40.69	185
28.9	53.097	190	24.02	172	54.688	250	18.82	57	12.09	80	21.22	239	39.653	184	38.84	186
Juli 8.9	53.287	220	22.30	169	54.938	285	18.25	42	12.89	95	18.83	210	39.837	212	36.98	180
18.9	53.507	242	20.61	158	55.223	313	17.83	26	13.84	108	16.73	177	40.049	237	35.18	168
28.9	53.749	260	19.03	142	55.536	337	17.57	11	14.92	120	14.96	141	40.286	256	33.50	151
Aug. 7.8	54.009	273	17.61	121	55.873	352	17.46	3	16.12	129	13.55	101	40.542	270	31.99	129
17.8	54.282	281	16.40	96	56.225	362	17.49	16	17.41	134	12.54	59	40.812	279	30.70	102
27.8	54.563	284	15.44	67	56.587	367	17.65	28	18.75	139	11.95	17	41.091	284	29.68	67
Sept. 6.8	54.847	283	14.77	34	56.954	366	17.93	39	20.14	139	11.78	25	41.375	283	29.01	33
16.7	55.130	278	14.43	0	57.320	361	18.32	47	21.53	138	12.03	68	41.658	280	28.68	3
26.7	55.408	269	14.43	35	57.681	351	18.79	56	22.91	135	12.71	110	41.938	271	28.71	41
Okt. 6.7	55.677	256	14.78	67	58.032	337	19.35	64	24.26	127	13.81	150	42.209	260	29.12	76
16.6	55.933	240	15.45	98	58.369	319	19.99	70	25.53	119	15.31	187	42.469	244	29.88	109
26.6	56.173	220	16.43	123	58.688	295	20.69	78	26.72	107	17.18	221	42.713	224	30.97	138
Nov. 5.6	56.393	195	17.66	145	58.983	266	21.47	84	27.79	93	19.39	251	42.937	200	32.35	160
15.6	56.588	167	19.11	159	59.249	230	22.31	90	28.72	75	21.90	275	43.137	171	33.95	176
25.5	56.755	133	20.70	166	59.479	189	23.21	94	29.47	57	24.65	293	43.308	138	35.71	185
Dez. 5.5	56.888	97	22.36	169	59.668	143	24.15	97	30.04	36	27.58	301	43.446	102	37.56	188
15.5	56.985	57	24.05	164	59.811	90	25.12	98	30.40	13	30.59	302	43.548	61	39.44	183
25.5	57.042	15	25.69	155	59.901	36	26.10	94	30.53	10	33.61	292	43.609	18	41.27	173
35.4	57.057		27.24		59.937		27.04		30.43		36.53		43.627		43.00	
Mittl. Ort	52.019		24.83		52.980		23.30		10.67		28.55		38.655		39.48	
sec δ, tg δ	1.004		−0.091		1.276		+0.792		5.308		+5.212		1.011		−0.146	

Mittlere Zeit Greenw.	193) α Aurigae				196) ϑ Doradus				201) γ Orionis				202) β Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$5^h\ 10^m$		+45° 54′		$5^h\ 13^m$		−67° 16′		$5^h\ 20^m$		+6° 16′		$5^h\ 21^m$		+28° 32′	
Jan. 0.4	45.510	3	63.75	130	52.13	27	44.14	313	49.530	15	35.31	93	12.977	22	24.63	34
10.4	45.513	60	65.05	117	51.86	36	47.27	276	49.545	30	34.38	83	12.999	28	24.97	32
20.4	45.453	119	66.22	99	51.50	44	50.03	231	49.515	72	33.55	71	12.971	77	25.29	28
30.4	45.334	170	67.21	76	51.06	51	52.34	181	49.443	109	32.84	60	12.894	121	25.57	21
Feb. 9.3	45.164	212	67.97	50	50.55	56	54.15	128	49.334	141	32.24	49	12.773	156	25.78	11
19.3	44.952	241	68.47	19	49.99	60	55.43	73	49.193	164	31.75	37	12.617	182	25.89	1
März 1.3	44.711	257	68.66	11	49.39	61	56.16	18	49.029	177	31.38	25	12.435	198	25.88	13
11.2	44.454	257	68.55	41	48.78	61	56.34	38	48.852	180	31.13	15	12.237	200	25.75	25
21.2	44.197	243	68.14	69	48.17	59	55.96	91	48.672	171	30.98	2	12.037	191	25.50	36
31.2	43.954	215	67.45	95	47.58	55	55.05	142	48.501	155	30.96	9	11.846	171	25.14	46
Apr. 10.2	43.739	176	66.50	116	47.03	49	53.63	187	48.346	128	31.05	23	11.675	141	24.68	53
20.1	43.563	126	65.34	131	46.54	43	51.76	230	48.218	95	31.28	36	11.534	103	24.15	57
30.1	43.437	70	64.03	142	46.11	36	49.46	266	48.123	56	31.64	49	11.431	59	23.58	57
Mai 10.1	43.367	10	62.61	147	45.75	27	46.80	296	48.067	14	32.13	63	11.372	11	23.01	55
20.1	43.357	52	61.14	145	45.48	17	43.84	319	48.053	29	32.76	76	11.361	38	22.46	50
30.0	43.409	113	59.69	140	45.31	7	40.65	334	48.082	72	33.52	88	11.399	87	21.96	42
Juni 9.0	43.522	171	58.29	129	45.24	3	37.31	341	48.154	114	34.40	98	11.486	134	21.54	32
19.0	43.693	224	57.00	116	45.27	12	33.90	338	48.268	151	35.38	106	11.620	176	21.22	23
28.9	43.917	271	55.84	100	45.39	21	30.52	327	48.419	185	36.44	111	11.796	214	20.99	12
Juli 8.9	44.188	312	54.84	81	45.60	31	27.25	307	48.604	215	37.55	111	12.010	247	20.87	2
18.9	44.500	346	54.03	62	45.91	39	24.18	276	48.819	239	38.66	108	12.257	274	20.85	7
28.9	44.846	371	53.41	42	46.30	45	21.42	237	49.058	258	39.74	101	12.531	296	20.92	15
Aug. 7.8	45.217	390	52.99	22	46.75	51	19.05	190	49.316	273	40.75	89	12.827	311	21.07	20
17.8	45.607	403	52.77	3	47.26	55	17.15	136	49.589	282	41.64	73	13.138	322	21.27	25
27.8	46.010	409	52.74	15	47.81	59	15.79	76	49.871	287	42.37	55	13.460	328	21.52	26
Sept. 6.8	46.419	409	52.89	33	48.40	59	15.03	13	50.158	289	42.92	33	13.788	329	21.78	27
16.7	46.828	404	53.22	50	48.99	59	14.90	53	50.447	285	43.25	9	14.117	326	22.05	27
26.7	47.232	394	53.72	65	49.58	57	15.43	116	50.732	280	43.34	14	14.443	320	22.32	25
Okt. 6.7	47.626	379	54.37	79	50.15	53	16.59	178	51.012	271	43.20	37	14.763	310	22.57	24
16.6	48.005	358	55.16	94	50.68	47	18.37	234	51.283	257	42.83	59	15.073	296	22.81	22
26.6	48.363	331	56.10	107	51.15	40	20.71	281	51.540	239	42.24	77	15.369	276	23.03	23
Nov. 5.6	48.694	298	57.17	118	51.55	31	23.52	320	51.779	218	41.47	91	15.645	252	23.26	24
15.6	48.992	258	58.35	129	51.86	22	26.72	346	51.997	191	40.56	100	15.897	222	23.50	25
25.5	49.250	211	59.64	135	52.08	11	30.18	361	52.188	159	39.56	106	16.119	186	23.75	29
Dez. 5.5	49.461	158	60.99	140	52.19	1	33.79	362	52.347	123	38.50	107	16.305	145	24.04	32
15.5	49.619	99	62.39	141	52.20	10	37.41	352	52.470	82	37.43	104	16.450	100	24.36	34
25.5	49.718	37	63.80	136	52.10	20	40.93	331	52.552	39	36.39	97	16.550	50	24.70	35
35.4	49.755		65.16		51.90		44.24		52.591		35.42		16.600		25.05	
Mittl. Ort	42.153		61.26		48.94		35.16		47.148		38.09		10.216		24.90	
sec δ, tg δ	1.437		+1.032		2.589		−2.388		1.006		+0.110		1.138		+0.544	

Mittlere Zeit Greenw.	203) 17 Camelop.				206) δ Orionis				205) Gr. 966				207) α Leporis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	5h 22m		+62° 59′		5h 27m		−0° 21′		5h 28m		+74° 59′		5h 29m		−17° 52′	
Jan. 0.4	35.71	2	67.71	219	54.384	16	33.03	130	60.89	7	36.70	271	11.678	2	51.48	216
10.4	35.69	10	69.90	202	54.400	28	34.33	117	60.82	23	39.41	251	11.676	47	53.64	195
20.4	35.59	20	71.92	175	54.372	71	35.50	101	60.59	39	41.92	222	11.629	90	55.59	168
30.4	35.39	28	73.67	143	54.301	108	36.51	84	60.20	52	44.14	183	11.539	128	57.27	138
Feb. 9.3	35.11	34	75.10	104	54.193	140	37.35	66	59.68	63	45.97	137	11.411	160	58.65	107
19.3	34.77	39	76.14	60	54.053	164	38.01	48	59.05	72	47.34	87	11.251	183	59.72	74
März 1.3	34.38	41	76.74	15	53.889	178	38.49	29	58.33	75	48.21	32	11.068	197	60.46	39
11.3	33.97	42	76.89	31	53.711	181	38.78	12	57.58	77	48.53	23	10.871	201	60.85	5
21.2	33.55	40	76.58	75	53.530	175	38.90	7	56.81	74	48.30	75	10.670	195	60.90	28
31.2	33.15	36	75.83	116	53.355	159	38.83	24	56.07	68	47.55	126	10.475	179	60.62	61
Apr. 10.2	32.79	30	74.67	152	53.196	134	38.59	42	55.39	59	46.29	170	10.296	153	60.01	92
20.1	32.49	24	73.15	181	53.062	102	38.17	61	54.80	48	44.59	208	10.143	123	59.09	122
30.1	32.25	16	71.34	204	52.960	65	37.56	78	54.32	34	42.51	237	10.020	84	57.87	148
Mai 10.1	32.09	7	69.30	218	52.895	25	36.78	95	53.98	20	40.14	258	9.936	43	56.39	173
20.1	32.02	2	67.12	225	52.870	19	35.83	110	53.78	4	37.56	270	9.893	0	54.66	194
30.0	32.04	12	64.87	226	52.889	61	34.73	123	53.74	12	34.86	274	9.893	43	52.72	209
Juni 9.0	32.16	20	62.61	219	52.950	101	33.50	133	53.86	26	32.12	270	9.936	86	50.63	220
19.0	32.36	28	60.42	206	53.051	140	32.17	140	54.12	41	29.42	259	10.022	126	48.43	225
29.0	32.64	36	58.36	188	53.191	174	30.77	143	54.53	54	26.83	241	10.148	162	46.18	225
Juli 8.9	33.00	42	56.48	166	53.365	204	29.34	141	55.07	66	24.42	216	10.310	195	43.93	216
18.9	33.42	48	54.82	141	53.569	228	27.93	134	55.73	77	22.26	189	10.505	223	41.77	202
28.9	33.90	52	53.41	113	53.797	249	26.59	123	56.50	85	20.37	157	10.728	246	39.75	180
Aug. 7.8	34.42	56	52.28	83	54.046	265	25.36	106	57.35	92	18.80	121	10.974	263	37.95	151
17.8	34.98	59	51.45	52	54.311	275	24.30	86	58.27	98	17.59	83	11.237	277	36.44	118
27.8	35.57	60	50.93	20	54.586	282	23.44	60	59.25	102	16.76	45	11.514	285	35.26	80
Sept. 6.8	36.17	61	50.73	11	54.868	284	22.84	33	60.27	102	16.31	4	11.799	289	34.46	36
16.7	36.78	60	50.84	43	55.152	283	22.51	3	61.29	103	16.27	35	12.088	287	34.10	8
26.7	37.38	59	51.27	75	55.435	278	22.48	28	62.32	102	16.62	76	12.375	282	34.18	54
Okt. 6.7	37.97	57	52.02	103	55.713	269	22.76	56	63.34	97	17.38	114	12.657	272	34.72	98
16.7	38.54	54	53.05	133	55.982	257	23.32	84	64.31	92	18.52	151	12.929	258	35.70	138
26.6	39.08	50	54.38	159	56.239	239	24.16	107	65.23	85	20.03	186	13.187	238	37.08	174
Nov. 5.6	39.58	45	55.97	183	56.478	218	25.23	126	66.08	75	21.89	218	13.425	214	38.82	203
15.6	40.03	39	57.80	203	56.696	192	26.49	139	66.83	64	24.07	244	13.639	185	40.85	224
25.5	40.42	31	59.83	219	56.888	161	27.88	146	67.47	51	26.51	265	13.824	151	43.09	237
Dez. 5.5	40.73	23	62.02	229	57.049	124	29.34	148	67.98	36	29.16	278	13.975	112	45.46	242
15.5	40.96	13	64.31	232	57.173	84	30.82	145	68.34	19	31.94	284	14.087	69	47.88	238
25.5	41.09	5	66.63	227	57.257	40	32.27	136	68.53	3	34.78	279	14.156	25	50.26	225
35.4	41.14		68.90		57.297		33.63		68.56		37.57		14.181		52.51	
Mittl. Ort	30.89		64.88		52.052		29.27		53.05		33.86		9.428		46.01	
sec δ, tg δ	2.203		+1.963		1.000		−0.006		3.862		+3.730		1.051		−0.323	

Mittlere Zeit Greenw.	209) ι Orionis				210) ε Orionis				211) ζ Tauri				212) β Doradus			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$5^h\ 31^m$		$-5°\ 57'$		$5^h\ 32^m$		$-1°\ 15'$		$5^h\ 32^m$		$+21°\ 5'$		$5^h\ 32^m$		$-62°\ 32'$	
Jan. 0.5	30.523	14	48.29	161	8.488	19	13.72	136	50.798	33	37.50	9	58.18	17	41.46	329
10.4	30.537	30	49.90	144	8.507	25	15.08	123	50.831	16	37.41	6	58.01	25	44.75	296
20.4	30.507	72	51.34	125	8.482	68	16.31	106	50.815	63	37.35	5	57.76	32	47.71	255
30.4	30.435	111	52.59	104	8.414	107	17.37	88	50.752	106	37.30	4	57.44	39	50.26	209
Feb. 9.3	30.324	143	53.63	81	8.307	139	18.25	69	50.646	141	37.26	6	57.05	45	52.35	158
19.3	30.181	166	54.44	58	8.168	163	18.94	50	50.505	168	37.20	8	56.60	47	53.93	103
März 1.3	30.015	181	55.02	34	8.005	178	19.44	31	50.337	185	37.12	13	56.13	50	54.96	48
11.3	29.834	186	55.36	11	7.827	182	19.75	12	50.152	189	36.99	17	55.63	51	55.44	6
21.2	29.648	179	55.47	13	7.645	176	19.87	7	49.963	183	36.82	21	55.12	49	55.38	60
31.2	29.469	164	55.34	36	7.469	161	19.80	26	49.780	166	36.61	23	54.63	46	54.78	112
Apr. 10.2	29.305	140	54.98	58	7.308	137	19.54	44	49.614	139	36.38	24	54.17	43	53.66	160
20.2	29.165	108	54.40	81	7.171	105	19.10	63	49.475	106	36.14	24	53.74	37	52.06	204
30.1	29.057	72	53.59	101	7.066	69	18.47	81	49.369	65	35.90	20	53.37	31	50.02	243
Mai 10.1	28.985	31	52.58	120	6.997	28	17.66	98	49.304	20	35.70	15	53.06	24	47.59	278
20.1	28.954	10	51.38	137	6.969	14	16.68	113	49.284	25	35.55	8	52.82	16	44.81	304
30.0	28.964	53	50.01	151	6.983	57	15.55	127	49.309	70	35.47	0	52.66	8	41.77	323
Juni 9.0	29.017	94	48.50	162	7.040	97	14.28	136	49.379	115	35.47	8	52.58	1	38.54	334
19.0	29.111	132	46.88	168	7.137	135	12.92	144	49.494	155	35.55	17	52.59	8	35.20	337
29.0	29.243	167	45.20	170	7.272	169	11.48	146	49.649	192	35.72	24	52.67	17	31.83	330
Juli 8.9	29.410	197	43.50	166	7.441	200	10.02	144	49.841	223	35.96	31	52.84	24	28.53	314
18.9	29.607	224	41.84	157	7.641	225	8.58	137	50.064	250	36.27	35	53.08	31	25.39	288
28.9	29.831	244	40.27	142	7.866	246	7.21	125	50.314	272	36.62	37	53.39	37	22.51	252
Aug. 7.9	30.075	261	38.85	122	8.112	262	5.96	108	50.586	288	36.99	36	53.76	42	19.99	209
17.8	30.336	272	37.63	96	8.374	274	4.88	87	50.874	299	37.35	34	54.18	46	17.90	157
27.8	30.608	280	36.67	67	8.648	280	4.01	61	51.173	307	37.69	29	54.64	50	16.33	100
Sept. 6.8	30.888	283	36.00	34	8.928	284	3.40	32	51.480	309	37.98	21	55.14	50	15.33	37
16.7	31.171	282	35.66	1	9.212	283	3.08	2	51.789	309	38.19	14	55.64	51	14.96	27
26.7	31.453	278	35.67	36	9.495	279	3.06	29	52.098	305	38.33	4	56.15	50	15.23	93
Okt. 6.7	31.731	269	36.03	71	9.774	270	3.35	60	52.403	297	38.37	4	56.65	47	16.16	155
16.7	32.000	257	36.74	102	10.044	258	3.95	87	52.700	285	38.33	12	57.12	43	17.71	214
26.6	32.257	239	37.76	130	10.302	242	4.82	112	52.985	268	38.21	18	57.55	38	19.85	265
Nov. 5.6	32.496	218	39.06	153	10.544	221	5.94	131	53.253	247	38.03	21	57.93	32	22.50	308
15.6	32.714	192	40.59	168	10.765	195	7.25	144	53.500	219	37.82	22	58.25	24	25.58	339
25.6	32.906	160	42.27	178	10.960	164	8.69	153	53.719	187	37.60	22	58.49	15	28.97	358
Dez. 5.5	33.066	123	44.05	181	11.124	127	10.22	154	53.906	149	37.38	19	58.64	7	32.55	366
15.5	33.189	82	45.86	177	11.251	88	11.76	151	54.055	106	37.19	15	58.71	2	36.21	360
25.5	33.271	40	47.63	168	11.339	44	13.27	143	54.161	59	37.04	11	58.69	12	39.81	344
35.4	33.311		49.31		11.383		14.70		54.220		36.93		58.57		43.25	
Mittl. Ort	28.225		43.88		6.156		9.74		48.180		39.32		55.21		33.47	
sec δ, tg δ	1.005		−0.104		1.000		−0.022		1.072		+0.386		2.169		−1.925	

Mittlere Zeit Greenw.	215) α Columbae AR.		215) α Columbae Dekl.		216) ο Aurigae AR.		216) ο Aurigae Dekl.		219) ζ Leporis AR.		219) ζ Leporis Dekl.		220) κ Orionis AR.		220) κ Orionis Dekl.	
1919	5h 36m		−34° 6′		5h 39m		+49° 47′		5h 43m		−14° 50′		5h 43m		−9° 41′	
Jan. 0.5	45.199	24	66.70	282	41.074	38	32.37	156	19.365	16	69.86	209	57.169	22	55.92	185
10.4	45.175	75	69.52	255	41.112	33	33.93	147	19.381	31	71.95	190	57.191	24	57.77	166
20.4	45.100	122	72.07	221	41.079	100	35.40	133	19.350	75	73.85	165	57.167	68	59.43	146
30.4	44.978	166	74.28	184	40.979	160	36.73	111	19.275	115	75.50	138	57.099	107	60.89	121
Feb. 9.3	44.812	200	76.12	141	40.819	212	37.84	85	19.160	148	76.88	108	56.992	141	62.10	95
19.3	44.612	226	77.53	97	40.607	251	38.69	55	19.012	174	77.96	77	56.851	166	63.05	69
März 1.3	44.386	242	78.50	52	40.356	275	39.24	22	18.838	190	78.73	46	56.685	183	63.74	41
11.3	44.144	247	79.02	7	40.081	284	39.46	12	18.648	196	79.19	14	56.502	190	64.15	15
21.2	43.897	241	79.09	38	39.797	275	39.34	46	18.452	192	79.33	17	56.312	185	64.30	12
31.2	43.656	225	78.71	82	39.522	253	38.88	76	18.260	179	79.16	47	56.127	172	64.18	39
Apr. 10.2	43.431	199	77.89	122	39.269	217	38.12	104	18.081	155	78.69	77	55.955	149	63.79	64
20.2	43.232	166	76.67	160	39.052	170	37.08	126	17.926	126	77.92	105	55.806	120	63.15	88
30.1	43.066	126	75.07	195	38.882	114	35.82	145	17.800	91	76.87	130	55.686	84	62.27	112
Mai 10.1	42.940	82	73.12	225	38.768	53	34.37	155	17.709	50	75.57	154	55.602	45	61.15	132
20.1	42.858	35	70.87	250	38.715	11	32.82	162	17.659	9	74.03	174	55.557	3	59.83	151
30.0	42.823	13	68.37	268	38.726	76	31.20	162	17.650	34	72.29	191	55.554	38	58.32	165
Juni 9.0	42.836	62	65.69	280	38.802	139	29.58	158	17.684	75	70.38	202	55.592	79	56.67	177
19.0	42.898	107	62.89	285	38.941	197	28.00	150	17.759	115	68.36	208	55.671	119	54.90	184
29.0	43.005	150	60.04	282	39.138	250	26.50	137	17.874	151	66.28	209	55.790	153	53.06	185
Juli 8.9	43.155	189	57.22	270	39.388	297	25.13	122	18.025	184	64.19	203	55.943	185	51.21	180
18.9	43.344	224	54.52	251	39.685	338	23.91	104	18.209	212	62.16	191	56.128	213	49.41	171
28.9	43.568	254	52.01	223	40.023	371	22.87	85	18.421	236	60.25	171	56.341	236	47.70	154
Aug. 7.9	43.822	278	49.78	187	40.394	398	22.02	66	18.657	254	58.54	147	56.577	253	46.16	131
17.8	44.100	296	47.91	144	40.792	417	21.36	45	18.911	269	57.07	115	56.830	268	44.85	105
27.8	44.396	309	46.47	95	41.209	430	20.91	25	19.180	280	55.92	79	57.098	277	43.80	72
Sept. 6.8	44.705	316	45.52	43	41.639	437	20.66	4	19.460	284	55.13	39	57.375	282	43.08	36
16.7	45.021	316	45.09	13	42.076	439	20.62	15	19.744	286	54.74	3	57.657	284	42.72	2
26.7	45.337	311	45.22	70	42.515	434	20.77	36	20.030	284	54.77	47	57.941	281	42.74	40
Okt. 6.7	45.648	300	45.92	124	42.949	423	21.13	55	20.314	276	55.24	88	58.222	274	43.14	79
16.7	45.948	283	47.16	175	43.372	407	21.68	75	20.590	264	56.12	128	58.496	263	43.93	114
26.6	46.231	260	48.91	220	43.779	383	22.43	93	20.854	247	57.40	162	58.759	248	45.07	144
Nov. 5.6	46.491	230	51.11	257	44.162	351	23.36	111	21.101	226	59.02	191	59.007	227	46.51	170
15.6	46.721	194	53.68	285	44.513	311	24.47	128	21.327	198	60.93	212	59.234	200	48.21	189
25.6	46.915	153	56.53	303	44.824	264	25.75	142	21.525	166	63.05	225	59.434	169	50.10	200
Dez. 5.5	47.068	108	59.56	310	45.088	207	27.17	152	21.691	128	65.30	231	59.603	133	52.10	205
15.5	47.176	58	62.66	307	45.295	145	28.69	159	21.819	87	67.61	227	59.736	91	54.15	201
25.5	47.234	6	65.73	293	45.440	77	30.28	159	21.906	41	69.88	218	59.827	48	56.16	192
35.4	47.240		68.66		45.517		31.87		21.947		72.06		59.875		58.08	
Mittl. Ort	42.893		60.06		37.445		32.25		17.084		64.54		54.869		50.97	
sec δ, tg δ	1.208		−0.677		1.549		+1.183		1.035		−0.265		1.015		−0.171	

Mittlere Zeit Greenw.	224) α Orionis				225) δ Aurigae				227) β Aurigae				228) θ Aurigae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	5h 50m		+7° 23′		5h 52m		+54° 16′		5h 53m		+44° 56′		5h 54m		+37° 12′	
	s		″		s		″		s		″		s		″	
Jan. 0.5	49.605	42	31.12	93	55.399	57	47.44	181	38.610	58	24.57	130	14.926	59	27.43	85
10.4	49.647	4	30.19	83	55.456	23	49.25	173	38.668	7	25.87	126	14.985	0	28.28	84
20.4	49.643	49	29.36	70	55.433	99	50.98	159	38.661	71	27.13	117	14.985	57	29.12	79
30.4	49.594	91	28.66	58	55.334	168	52.57	137	38.590	129	28.30	101	14.928	110	29.91	69
Feb. 9.4	49.503	127	28.08	46	55.166	228	53.94	109	38.461	179	29.31	81	14.818	154	30.60	56
19.3	49.376	154	27.62	35	54.938	273	55.03	77	38.282	218	30.12	57	14.664	190	31.16	38
März 1.3	49.222	173	27.27	24	54.665	303	55.80	40	38.064	244	30.69	29	14.474	214	31.54	19
11.3	49.049	181	27.03	13	54.362	316	56.20	3	37.820	256	30.98	0	14.260	223	31.73	2
21.2	48.868	177	26.90	3	54.046	312	56.23	35	37.564	251	30.98	28	14.037	221	31.71	24
31.2	48.691	165	26.87	7	53.734	292	55.88	71	37.313	235	30.70	56	13.816	205	31.47	43
Apr. 10.2	48.526	143	26.94	18	53.442	255	55.17	104	37.078	204	30.14	80	13.611	178	31.04	60
20.2	48.383	113	27.12	29	53.187	206	54.13	131	36.874	164	29.34	101	13.433	142	30.44	75
30.1	48.270	77	27.41	41	52.981	148	52.82	154	36.710	114	28.33	118	13.291	98	29.69	86
Mai 10.1	48.193	38	27.82	53	52.833	83	51.28	170	36.596	60	27.15	129	13.193	48	28.83	93
20.1	48.155	4	28.35	64	52.750	13	49.58	181	36.536	2	25.86	135	13.145	3	27.90	96
30.1	48.159	46	28.99	74	52.737	56	47.77	186	36.534	56	24.51	137	13.148	55	26.94	95
Juni 9.0	48.205	87	29.73	83	52.793	125	45.91	184	36.590	113	23.14	135	13.203	105	25.99	92
19.0	48.292	125	30.56	91	52.918	191	44.07	178	36.703	167	21.79	128	13.308	154	25.07	85
29.0	48.417	160	31.47	94	53.109	250	42.29	168	36.870	217	20.51	119	13.462	198	24.22	78
Juli 8.9	48.577	192	32.41	95	53.359	304	40.61	153	37.087	261	19.32	108	13.660	236	23.44	68
18.9	48.769	218	33.36	93	53.663	351	39.08	136	37.348	298	18.24	94	13.896	270	22.76	57
28.9	48.987	241	34.29	86	54.014	391	37.72	117	37.646	331	17.30	80	14.166	298	22.19	48
Aug. 7.9	49.228	259	35.15	75	54.405	423	36.55	95	37.977	356	16.50	64	14.464	321	21.71	37
17.8	49.487	272	35.90	61	54.828	448	35.60	73	38.333	376	15.86	49	14.785	338	21.34	28
27.8	49.759	281	36.51	42	55.276	466	34.87	50	38.709	390	15.37	33	15.123	350	21.06	19
Sept. 6.8	50.040	287	36.93	23	55.742	477	34.37	27	39.099	399	15.04	18	15.473	358	20.87	11
16.8	50.327	290	37.16	0	56.219	482	34.10	2	39.498	403	14.86	3	15.831	361	20.76	2
26.7	50.617	288	37.16	23	56.701	480	34.08	22	39.901	402	14.83	14	16.192	360	20.74	5
Okt. 6.7	50.905	283	36.93	45	57.181	472	34.30	46	40.303	395	14.97	29	16.552	355	20.79	13
16.7	51.188	274	36.48	65	57.653	455	34.76	70	40.698	382	15.26	44	16.907	344	20.92	22
26.6	51.462	260	35.83	83	58.108	432	35.46	95	41.080	364	15.70	61	17.251	328	21.14	31
Nov. 5.6	51.722	242	35.00	96	58.540	399	36.41	116	41.444	339	16.31	76	17.579	306	21.45	41
15.6	51.964	218	34.04	105	58.939	356	37.57	137	41.783	304	17.07	92	17.885	277	21.86	52
25.6	52.182	188	32.99	110	59.295	305	38.94	155	42.087	263	17.99	106	18.162	240	22.38	62
Dez. 5.5	52.370	153	31.89	110	59.600	244	40.49	170	42.350	213	19.05	118	18.402	196	23.00	72
15.5	52.523	112	30.79	105	59.844	174	42.19	180	42.563	156	20.23	127	18.598	146	23.72	79
25.5	52.635	69	29.74	98	60.018	99	43.99	183	42.719	94	21.50	131	18.744	90	24.51	85
35.5	52.704		28.76		60.117		45.82		42.813		22.81		18.834		25.36	
Mittl. Ort	47.167		35.03		51.445		48.34		35.235		26.10		11.869		29.49	
sec δ, tg δ	1.008		+0.130		1.713		+1.391		1.413		+0.998		1.256		+0.759	

Mittlere Zeit Greenw.	229) η Columbae AR.		229) η Columbae Dekl.		232) ν Orionis AR.		232) ν Orionis Dekl.		234) 22 H. Camelop. AR.		234) 22 H. Camelop. Dekl.		236) η Geminorum AR.		236) η Geminorum Dekl.	
1919	$5^h 56^m$		−42° 48′		$6^h 2^m$		+14° 46′		$6^h 9^m$		+69° 20′		$6^h 9^m$		+22° 31′	
Jan. 0.5	42.479	23	75.74	318	59.383	59	40.88	52	61.45	8	59.91	253	61.988	70	49.30	6
10.4	42.456	82	78.92	292	59.442	10	40.36	44	61.53	4	62.44	246	62.058	18	49.24	1
20.4	42.374	137	81.84	258	59.452	38	39.92	34	61.49	17	64.90	229	62.076	32	49.25	6
30.4	42.237	186	84.42	219	59.414	83	39.58	27	61.32	29	67.19	202	62.044	80	49.31	10
Feb. 9.4	42.051	227	86.61	175	59.331	121	39.31	20	61.03	39	69.21	167	61.964	122	49.41	10
19.3	41.824	259	88.36	127	59.210	151	39.11	16	60.64	46	70.88	126	61.842	154	49.51	7
März 1.3	41.565	279	89.63	78	59.059	173	38.95	11	60.18	52	72.14	79	61.688	178	49.58	4
11.3	41.286	289	90.41	28	58.886	182	38.84	9	59.66	55	72.93	29	61.510	190	49.62	1
21.3	40.997	286	90.69	21	58.704	182	38.75	6	59.11	55	73.22	21	61.320	190	49.61	6
31.2	40.711	273	90.48	69	58.522	171	38.69	3	58.56	52	73.01	70	61.130	180	49.55	12
Apr. 10.2	40.438	248	89.79	114	58.351	149	38.66	0	58.04	48	72.31	115	60.950	159	49.43	16
20.2	40.190	216	88.65	157	58.202	120	38.66	5	57.56	40	71.16	156	60.791	129	49.27	19
30.1	39.974	176	87.08	197	58.082	86	38.71	10	57.16	32	69.60	191	60.662	93	49.08	21
Mai 10.1	39.798	129	85.11	231	57.996	45	38.81	16	56.84	22	67.69	218	60.569	52	48.87	19
20.1	39.669	80	82.80	259	57.951	4	38.97	24	56.62	12	65.51	238	60.517	9	48.68	18
30.1	39.589	28	80.21	282	57.947	39	39.21	30	56.50	0	63.13	250	60.508	35	48.50	13
Juni 9.0	39.561	25	77.39	297	57.986	81	39.51	38	56.50	11	60.63	255	60.543	79	48.37	9
19.0	39.586	76	74.42	305	58.067	120	39.89	43	56.61	22	58.08	254	60.622	120	48.28	4
29.0	39.662	125	71.37	304	58.187	157	40.32	49	56.83	32	55.54	245	60.742	158	48.24	1
Juli 9.0	39.787	172	68.33	295	58.344	189	40.81	51	57.15	42	53.09	231	60.900	193	48.25	4
18.9	39.959	215	65.38	275	58.533	217	41.32	51	57.57	50	50.78	212	61.093	222	48.29	7
28.9	40.174	251	62.63	248	58.750	241	41.83	48	58.07	57	48.66	189	61.315	248	48.36	9
Aug. 7.9	40.425	284	60.15	211	58.991	261	42.31	42	58.64	63	46.77	161	61.563	269	48.45	7
17.8	40.709	309	58.04	167	59.252	275	42.73	33	59.27	69	45.16	132	61.832	285	48.52	5
27.8	41.018	329	56.37	117	59.527	286	43.06	22	59.96	72	43.84	99	62.117	298	48.57	0
Sept. 6.8	41.347	342	55.20	60	59.813	294	43.28	9	60.68	76	42.85	66	62.415	307	48.57	6
16.8	41.689	347	54.60	1	60.107	298	43.37	6	61.44	77	42.19	29	62.722	312	48.51	14
26.7	42.036	346	54.59	60	60.405	299	43.31	21	62.21	77	41.90	6	63.034	314	48.37	20
Okt. 6.7	42.382	338	55.19	120	60.704	296	43.10	36	62.98	76	41.96	44	63.348	312	48.17	27
16.7	42.720	321	56.39	176	61.000	288	42.74	50	63.74	74	42.40	80	63.660	305	47.90	33
26.7	43.041	296	58.15	227	61.288	277	42.24	60	64.48	70	43.20	117	63.965	295	47.57	36
Nov. 5.6	43.337	265	60.42	270	61.565	259	41.64	68	65.18	65	44.37	151	64.260	277	47.21	37
15.6	43.602	225	63.12	304	61.824	237	40.96	72	65.83	58	45.88	183	64.537	255	46.84	36
25.6	43.827	179	66.16	327	62.061	207	40.24	73	66.41	50	47.71	210	64.792	224	46.48	32
Dez. 5.5	44.006	127	69.43	339	62.268	172	39.51	69	66.91	39	49.81	233	65.016	188	46.16	24
15.5	44.133	70	72.82	339	62.440	131	38.82	64	67.30	28	52.14	247	65.204	146	45.92	18
25.5	44.203	12	76.21	328	62.571	85	38.18	56	67.58	16	54.61	255	65.350	98	45.74	9
35.5	44.215		79.49		62.656		37.62		67.74		57.16		65.448		45.65	
Mittl. Ort	40.036		69.19		56.841		44.89		55.42		61.93		59.310		53.33	
sec δ, tg δ	1.363		−0.927		1.034		+0.264		2.836		+2.654		1.083		+0.415	

Mittlere Zeit Greenw.	240) ζ Canis maj. AR.		Dekl.		241) μ Geminorum AR.		Dekl.		242) ψ¹ Aurigae AR.		Dekl.		243) β Canis maj. AR.		Dekl.	
1919	6h 17m		−30° 1′		6h 18m		+22° 33′		6h 18m		+49° 19′		6h 19m		−17° 54′	
Jan. 0.5	14.531	28	41.53	288	6.326	79	18.39	8	43.308	95	47.03	154	10.257	47	58.98	238
10.5	14.559	24	44.41	268	6.405	26	18.31	1	43.403	21	48.57	154	10.304	2	61.36	220
20.4	14.535	75	47.09	240	6.431	25	18.32	7	43.424	50	50.11	147	10.302	50	63.56	196
30.4	14.460	121	49.49	207	6.406	73	18.39	10	43.374	116	51.58	134	10.252	94	65.52	168
Feb. 9.4	14.339	162	51.56	169	6.333	116	18.49	12	43.258	176	52.92	114	10.158	133	67.20	136
19.3	14.177	194	53.25	129	6.217	150	18.61	10	43.082	224	54.06	88	10.025	165	68.56	104
März 1.3	13.983	216	54.54	87	6.067	175	18.71	7	42.858	257	54.94	59	9.860	186	69.60	71
11.3	13.767	229	55.41	45	5.892	189	18.78	3	42.601	277	55.53	28	9.674	198	70.31	37
21.3	13.538	230	55.86	2	5.703	190	18.81	3	42.324	279	55.81	6	9.476	200	70.68	2
31.2	13.308	221	55.88	39	5.513	181	18.78	9	42.045	267	55.75	39	9.276	191	70.70	30
Apr. 10.2	13.087	203	55.49	80	5.332	162	18.69	14	41.778	241	55.36	69	9.085	175	70.40	62
20.2	12.884	177	54.69	118	5.170	134	18.55	17	41.537	202	54.67	96	8.910	149	69.78	93
30.2	12.707	143	53.51	153	5.036	98	18.38	19	41.335	154	53.71	119	8.761	118	68.85	122
Mai 10.1	12.564	105	51.98	185	4.938	58	18.19	19	41.181	99	52.52	137	8.643	81	67.63	147
20.1	12.459	63	50.13	212	4.880	16	18.00	17	41.082	40	51.15	150	8.562	43	66.16	170
30.1	12.396	19	48.01	235	4.864	28	17.83	15	41.042	21	49.65	158	8.519	1	64.46	190
Juni 9.0	12.377	25	45.66	251	4.892	71	17.68	11	41.063	83	48.07	162	8.518	39	62.56	203
19.0	12.402	69	43.15	261	4.963	112	17.57	6	41.146	141	46.45	160	8.557	79	60.53	212
29.0	12.471	110	40.54	264	5.075	151	17.51	3	41.287	196	44.85	154	8.636	116	58.41	215
Juli 9.0	12.581	149	37.90	259	5.226	186	17.48	0	41.483	245	43.31	146	8.752	151	56.26	211
18.9	12.730	184	35.31	245	5.412	215	17.48	3	41.728	290	41.85	135	8.903	182	54.15	201
28.9	12.914	216	32.86	224	5.627	242	17.51	4	42.018	328	40.50	121	9.085	210	52.14	183
Aug. 7.9	13.130	243	30.62	194	5.869	263	17.55	2	42.346	360	39.29	106	9.295	233	50.31	160
17.9	13.373	266	28.68	157	6.132	281	17.57	1	42.706	387	38.23	89	9.528	253	48.71	129
27.8	13.639	284	27.11	115	6.413	295	17.56	6	43.093	408	37.34	72	9.781	268	47.42	92
Sept. 6.8	13.923	298	25.96	65	6.708	305	17.50	13	43.501	423	36.62	54	10.049	280	46.50	51
16.8	14.221	306	25.31	13	7.013	312	17.37	19	43.924	432	36.08	35	10.329	288	45.99	7
26.7	14.527	309	25.18	41	7.325	315	17.18	27	44.356	436	35.73	16	10.617	291	45.92	38
Okt. 6.7	14.836	306	25.59	95	7.640	314	16.91	33	44.792	435	35.57	5	10.908	289	46.30	84
16.7	15.142	298	26.54	146	7.954	309	16.58	39	45.227	427	35.62	26	11.197	283	47.14	127
26.7	15.440	283	28.00	193	8.263	299	16.19	42	45.654	411	35.88	47	11.480	271	48.41	166
Nov. 5.6	15.723	261	29.93	234	8.562	283	15.77	42	46.065	387	36.35	69	11.751	253	50.07	199
15.6	15.984	233	32.27	266	8.845	261	15.35	41	46.452	355	37.04	91	12.004	229	52.06	225
25.6	16.217	197	34.93	288	9.106	233	14.94	36	46.807	312	37.95	111	12.233	199	54.31	243
Dez. 5.6	16.414	155	37.81	301	9.339	196	14.58	29	47.119	261	39.06	128	12.432	162	56.74	252
15.5	16.569	109	40.82	303	9.535	153	14.29	20	47.380	200	40.34	143	12.594	120	59.26	253
25.5	16.678	59	43.85	297	9.688	107	14.09	11	47.580	135	41.77	152	12.714	73	61.79	245
35.5	16.737		46.82		9.795		13.98		47.715		43.29		12.787		64.24	
Mittl. Ort	12.180		35.73		3.647		22.92		39.696		50.70		7.937		53.37	
sec δ, tg δ	1.155		−0.578		1.083		+0.415		1.534		+1.164		1.051		−0.323	

Mittlere Zeit Greenw.	244) δ Monocerotis AR.		244) δ Monocerotis Dekl.		245) α Argus AR.		245) α Argus Dekl.		246) 10 Monocerotis AR.		246) 10 Monocerotis Dekl.		247) 8 Lyncis AR.		247) 8 Lyncis Dekl.	
1919	$6^h\,19^m$		$+4°\,37'$		$6^h\,22^m$		$-52°\,38'$		$6^h\,23^m$		$-4°\,42'$		$6^h\,30^m$		$+61°\,32'$	
Jan. 0.5	30.999	67	60.79	117	11.874	20	69.26	352	59.947	64	45.55	172	22.14	12	70.21	216
10.5	31.066	20	59.62	104	11.854	91	72.78	329	60.011	17	47.27	156	22.26	3	72.37	216
20.4	31.086	28	58.58	89	11.763	159	76.07	299	60.028	30	48.83	138	22.29	7	74.53	207
30.4	31.058	72	57.69	73	11.604	220	79.06	260	59.998	75	50.21	116	22.22	17	76.60	188
Feb. 9.4	30.986	111	56.96	58	11.384	272	81.66	215	59.923	113	51.37	94	22.05	24	78.48	163
19.3	30.875	142	56.38	43	11.112	314	83.81	168	59.810	145	52.31	71	21.81	31	80.11	130
März 1.3	30.733	165	55.95	29	10.798	343	85.49	117	59.665	168	53.02	49	21.50	36	81.41	91
11.3	30.568	178	55.66	15	10.455	359	86.66	64	59.497	181	53.51	25	21.14	39	82.32	49
21.3	30.390	180	55.51	2	10.096	362	87.30	11	59.316	183	53.76	3	20.75	40	82.81	5
31.2	30.210	171	55.49	11	9.734	353	87.41	40	59.133	176	53.79	18	20.35	38	82.86	38
Apr. 10.2	30.039	154	55.60	24	9.381	331	87.01	90	58.957	159	53.61	40	19.97	36	82.48	80
20.2	29.885	128	55.84	36	9.050	299	86.11	138	58.798	135	53.21	60	19.61	31	81.68	118
30.2	29.757	96	56.20	49	8.751	258	84.73	182	58.663	104	52.61	79	19.30	24	80.50	151
Mai 10.1	29.661	60	56.69	60	8.493	210	82.91	222	58.559	69	51.82	98	19.06	18	78.99	178
20.1	29.601	21	57.29	72	8.283	154	80.69	255	58.490	30	50.84	114	18.88	10	77.21	200
30.1	29.580	19	58.01	83	8.129	97	78.14	283	58.460	8	49.70	128	18.78	2	75.21	214
Juni 9.0	29.599	59	58.84	91	8.032	37	75.31	304	58.468	48	48.42	139	18.76	6	73.07	222
19.0	29.658	97	59.75	98	7.995	25	72.27	316	58.516	85	47.03	147	18.82	14	70.85	224
29.0	29.755	132	60.73	100	8.020	85	69.11	320	58.601	122	45.56	150	18.96	22	68.61	221
Juli 9.0	29.887	165	61.73	101	8.105	144	65.91	314	58.723	153	44.06	148	19.18	29	66.40	212
18.9	30.052	193	62.74	96	8.249	198	62.77	299	58.876	183	42.58	142	19.47	35	64.28	200
28.9	30.245	218	63.70	88	8.447	249	59.78	275	59.059	209	41.16	129	19.82	41	62.28	182
Aug. 7.9	30.463	238	64.58	76	8.696	294	57.03	240	59.268	230	39.87	112	20.23	46	60.46	162
17.9	30.701	256	65.34	60	8.990	333	54.63	197	59.498	248	38.75	90	20.69	50	58.84	139
27.8	30.957	269	65.94	40	9.323	365	52.66	146	59.746	263	37.85	62	21.19	53	57.45	115
Sept. 6.8	31.226	279	66.34	17	9.688	388	51.20	90	60.009	274	37.23	32	21.72	56	56.30	87
16.8	31.505	285	66.51	8	10.076	403	50.30	28	60.283	281	36.91	2	22.28	57	55.43	58
26.7	31.790	289	66.43	34	10.479	408	50.02	36	60.564	285	36.93	36	22.85	58	54.85	28
Okt. 6.7	32.079	288	66.09	58	10.887	403	50.38	101	60.849	285	37.29	69	23.43	58	54.57	3
16.7	32.367	283	65.51	82	11.290	389	51.39	162	61.134	281	37.98	103	24.01	58	54.60	35
26.7	32.650	274	64.69	102	11.679	363	53.01	219	61.415	271	39.01	131	24.59	55	54.95	68
Nov. 5.6	32.924	259	63.67	118	12.042	327	55.20	269	61.686	257	40.32	154	25.14	52	55.63	99
15.6	33.183	238	62.49	129	12.369	281	57.89	309	61.943	235	41.86	172	25.66	48	56.62	131
25.6	33.421	211	61.20	135	12.650	226	60.98	340	62.178	208	43.58	184	26.14	42	57.93	158
Dez. 5.6	33.632	177	59.85	135	12.876	163	64.38	358	62.386	174	45.42	188	26.56	35	59.51	182
15.5	33.809	137	58.50	131	13.039	96	67.96	364	62.560	134	47.30	186	26.91	26	61.33	202
25.5	33.946	94	57.19	123	13.135	24	71.60	359	62.694	91	49.16	178	27.17	18	63.35	214
35.5	34.040		55.96		13.159		75.19		62.785		50.94		27.35		65.49	
Mittl. Ort	28.570		65.93		9.157		63.56		57.586		40.09		17.49		74.69	
sec δ, tg δ	1.003		+0.081		1.648		−1.310		1.003		−0.082		2.099		+1.846	

Mittlere Zeit Greenw.	249) ξ² Canis maj. AR.		249) ξ² Canis maj. Dekl.		248) 23 H. Camelop. AR.		248) 23 H. Camelop. Dekl.	
1919	6ʰ 31ᵐ		−22° 53′		6ʰ 32ᵐ		+79° 38′	
Jan. 0.5	42.006	53	64.96	266	36.97	19	74.86	291
10.5	42.059	3	67.62	247	37.16	6	77.77	287
20.4	42.062	46	70.09	223	37.10	31	80.64	273
30.4	42.016	93	72.32	193	36.79	53	83.37	247
Feb. 9.4	41.923	134	74.25	160	36.26	74	85.84	212
19.4	41.789	168	75.85	124	35.52	91	87.96	167
März 1.3	41.621	191	77.09	88	34.61	103	89.63	117
11.3	41.430	206	77.97	50	33.58	110	90.80	63
21.3	41.224	209	78.47	12	32.48	113	91.43	5
31.2	41.015	204	78.59	24	31.35	110	91.48	51
Apr. 10.2	40.811	188	78.35	60	30.25	104	90.97	105
20.2	40.623	164	77.75	94	29.21	92	89.92	154
30.2	40.459	134	76.81	127	28.29	78	88.38	198
Mai 10.1	40.325	99	75.54	156	27.51	60	86.40	233
20.1	40.226	61	73.98	181	26.91	40	84.07	263
30.1	40.165	19	72.17	202	26.51	20	81.44	282
Juni 9.1	40.146	22	70.15	219	26.31	1	78.62	294
19.0	40.168	62	67.96	230	26.32	22	75.68	298
29.0	40.230	101	65.66	233	26.54	42	72.70	294
Juli 9.0	40.331	137	63.33	230	26.96	63	69.76	284
18.9	40.468	170	61.03	221	27.59	80	66.92	267
28.9	40.638	200	58.82	202	28.39	96	64.25	244
Aug. 7.9	40.838	227	56.80	177	29.35	110	61.81	216
17.9	41.065	249	55.03	145	30.45	122	59.65	185
27.8	41.314	267	53.58	107	31.67	133	57.80	149
Sept. 6.8	41.581	281	52.51	63	33.00	139	56.31	111
16.8	41.862	292	51.88	16	34.39	145	55.20	70
26.8	42.154	297	51.72	34	35.84	147	54.50	27
Okt. 6.7	42.451	297	52.06	83	37.31	146	54.23	17
16.7	42.748	293	52.89	130	38.77	144	54.40	62
26.7	43.041	282	54.19	174	40.21	137	55.02	106
Nov. 5.6	43.323	265	55.93	211	41.58	127	56.08	148
15.6	43.588	241	58.04	241	42.85	114	57.56	189
25.6	43.829	210	60.45	263	43.99	99	59.45	225
Dez. 5.6	44.039	173	63.08	275	44.98	79	61.70	254
15.5	44.212	130	65.83	278	45.77	57	64.24	276
25.5	44.342	82	68.61	272	46.34	33	67.00	290
35.5	44.424		71.33		46.67		69.90	
Mittl. Ort	39.671		59.36		26.10		79.13	
sec δ, tg δ	1.086		−0.422		5.569		+5.479	

Mittlere Zeit Greenw.	251) γ Geminorum AR.		251) γ Geminorum Dekl.		250) 51 Aurigae AR.		250) 51 Aurigae Dekl.	
1919	6ʰ 33ᵐ		+16° 27′		6ʰ 33ᵐ		+39° 27′	
Jan. 0.5	4.567	90	64.72	49	5.986	106	43.50	94
10.5	4.657	39	64.23	37	6.092	44	44.44	100
20.4	4.696	12	63.86	27	6.136	18	45.44	100
30.4	4.684	59	63.59	17	6.118	78	46.44	96
Feb. 9.4	4.625	103	63.42	11	6.040	130	47.40	85
19.4	4.522	138	63.31	4	5.910	173	48.25	71
März 1.3	4.384	163	63.27	2	5.737	206	48.96	52
11.3	4.221	179	63.25	1	5.531	226	49.48	30
21.3	4.042	183	63.26	2	5.305	231	49.78	7
31.2	3.859	177	63.28	2	5.074	223	49.85	16
Apr. 10.2	3.682	161	63.30	3	4.851	204	49.69	39
20.2	3.521	136	63.33	4	4.647	173	49.30	58
30.2	3.385	105	63.37	7	4.474	135	48.72	76
Mai 10.1	3.280	67	63.44	9	4.339	89	47.96	89
20.1	3.213	29	63.53	14	4.250	40	47.07	99
30.1	3.184	14	63.67	17	4.210	10	46.08	106
Juni 9.1	3.198	54	63.84	22	4.220	61	45.02	109
19.0	3.252	93	64.06	26	4.281	111	43.93	109
29.0	3.345	130	64.32	28	4.392	157	42.84	107
Juli 9.0	3.475	164	64.60	29	4.549	199	41.77	101
18.9	3.639	194	64.89	29	4.748	237	40.76	96
28.9	3.833	220	65.18	26	4.985	270	39.80	89
Aug. 7.9	4.053	242	65.44	20	5.255	298	38.91	80
17.9	4.295	262	65.64	12	5.553	322	38.11	72
27.8	4.557	276	65.76	2	5.875	341	37.39	64
Sept. 6.8	4.833	289	65.78	11	6.216	356	36.75	55
16.8	5.122	297	65.67	24	6.572	366	36.20	46
26.8	5.419	303	65.43	37	6.938	372	35.74	36
Okt. 6.7	5.722	304	65.06	51	7.310	375	35.38	26
16.7	6.026	302	64.55	61	7.685	372	35.12	13
26.7	6.328	295	63.94	72	8.057	361	34.99	0
Nov. 5.6	6.623	282	63.22	77	8.418	345	34.99	15
15.6	6.905	262	62.45	78	8.763	320	35.14	32
25.6	7.167	235	61.67	77	9.083	287	35.46	47
Dez. 5.6	7.402	202	60.90	72	9.370	245	35.93	64
15.5	7.604	163	60.18	64	9.615	196	36.57	78
25.5	7.767	116	59.54	54	9.811	140	37.35	90
35.5	7.883		59.00		9.951		38.25	
Mittl. Ort	1.995		70.24		2.854		48.71	
sec δ, tg δ	1.043		+0.296		1.295		+0.823	

Mittlere Zeit Greenw.	252) ν Argus AR.	Diff.	252) ν Argus Dekl.	Diff.	253) S Monocerotis AR.	Diff.	253) S Monocerotis Dekl.	Diff.	254) ε Geminorum AR.	Diff.	254) ε Geminorum Dekl.	Diff.	256) ξ Geminorum AR.	Diff.	256) ξ Geminorum Dekl.	Diff.
1919	6h 35m		−43° 7′		6h 36m		+9° 58′		6h 38m		+25° 12′		6h 40m		+12° 58′	
Jan. 0.5	19.459		33.29		33.559		12.43		59.723		39.23		47.156		56.34	
10.5	19.485	26	36.67	338	33.647	88	11.54	89	59.825	102	39.28	5	47.251	95	55.61	73
20.4	19.450	35	39.86	319	33.686	39	10.77	77	59.873	48	39.43	15	47.295	44	55.01	60
30.4	19.355	95	42.76	290	33.675	11	10.14	63	59.867	6	39.65	22	47.289	6	54.54	47
Feb. 9.4	19.205	150	45.32	256	33.618	57	9.64	50	59.810	57	39.92	27	47.236	53	54.18	36
19.4	19.007	198	47.47	215	33.519	99	9.26	38	59.707	103	40.21	29	47.139	97	53.93	25
März 1.3	18.770	237	49.17	170	33.385	134	9.00	26	59.565	142	40.48	27	47.007	132	53.77	16
11.3	18.505	265	50.41	124	33.226	159	8.83	17	59.395	170	40.70	22	46.848	159	53.68	9
21.3	18.223	282	51.15	74	33.052	174	8.76	7	59.206	189	40.85	15	46.673	175	53.65	3
31.2	17.936	287	51.40	25	32.872	180	8.76	0	59.012	194	40.92	7	46.493	180	53.67	2
Apr. 10.2	17.655	281	51.16	24	32.698	174	8.83	7	58.824	188	40.91	1	46.317	176	53.73	6
20.2	17.390	265	50.46	70	32.539	159	8.98	15	58.652	172	40.82	9	46.156	161	53.82	9
30.2	17.152	238	49.29	117	32.404	135	9.20	22	58.505	147	40.65	17	46.018	138	53.97	15
Mai 10.1	16.947	205	47.71	158	32.299	105	9.49	29	58.391	114	40.42	23	45.910	108	54.16	19
20.1	16.782	165	45.74	197	32.229	70	9.86	37	58.315	76	40.16	26	45.837	73	54.39	23
30.1	16.663	119	43.43	231	32.197	32	10.30	44	58.280	35	39.87	29	45.803	34	54.68	29
Juni 9.1	16.591	72	40.85	258	32.205	8	10.82	52	58.289	9	39.57	30	45.808	5	55.03	35
19.0	16.570	21	38.06	279	32.252	47	11.39	57	58.341	52	39.28	29	45.853	45	55.43	40
29.0	16.599	29	35.13	293	32.338	86	12.01	62	58.434	93	39.01	27	45.936	83	55.86	43
Juli 9.0	16.678	79	32.14	299	32.459	121	12.66	65	58.567	133	38.76	25	46.055	119	56.32	46
18.9	16.804	126	29.18	296	32.613	154	13.32	66	58.736	169	38.53	23	46.208	153	56.79	47
28.9	16.976	172	26.34	284	32.796	183	13.95	63	58.936	200	38.31	22	46.391	183	57.23	44
Aug. 7.9	17.188	212	23.72	262	33.006	210	14.52	57	59.165	229	38.10	21	46.600	209	57.63	40
17.9	17.438	250	21.41	231	33.238	232	14.99	47	59.418	253	37.87	23	46.832	232	57.94	31
27.8	17.720	282	19.48	193	33.489	251	15.34	35	59.692	274	37.63	24	47.084	252	58.15	21
Sept. 6.8	18.028	308	18.02	146	33.755	266	15.53	19	59.982	290	37.35	28	47.351	267	58.23	8
16.8	18.358	330	17.09	93	34.034	279	15.54	1	60.286	304	37.02	33	47.632	281	58.15	8
26.8	18.703	345	16.74	35	34.321	287	15.36	18	60.601	315	36.65	37	47.922	290	57.91	24
Okt. 6.7	19.055	352	16.99	25	34.615	294	14.97	39	60.921	320	36.23	42	48.219	297	57.49	42
16.7	19.408	353	17.86	87	34.911	296	14.38	59	61.245	324	35.78	45	48.518	299	56.91	58
26.7	19.752	344	19.33	147	35.205	294	13.62	76	61.567	322	35.30	48	48.817	299	56.17	74
Nov. 5.6	20.080	328	21.34	201	35.492	287	12.70	92	61.882	315	34.81	49	49.109	292	55.32	85
15.6	20.383	303	23.84	250	35.766	274	11.67	103	62.184	302	34.35	46	49.390	281	54.37	95
25.6	20.652	269	26.74	290	36.022	256	10.56	111	62.466	282	33.95	40	49.652	262	53.38	99
Dez. 5.6	20.879	227	29.94	320	36.252	230	9.43	113	62.721	255	33.62	33	49.889	237	52.39	99
15.5	21.056	177	33.33	339	36.450	198	8.32	111	62.941	220	33.39	23	50.094	205	51.43	96
25.5	21.178	122	36.81	348	36.609	159	7.27	105	63.120	179	33.28	11	50.259	165	50.54	89
35.5	21.241	63	40.25	344	36.723	114	6.32	95	63.251	131	33.27	1	50.380	121	49.76	78
Mittl. Ort	16.944		27.98		31.074		18.16		56.997		45.03		44.636		62.25	
sec δ, tg δ	1.370		−0.937		1.015		+0.176		1.105		+0.471		1.026		+0.231	

Mittlere Zeit Greenw.	257) α Canis maj.*) AR.	Δ	Dekl.	Δ	258) 18 Monocerotis AR.	Δ	Dekl.	Δ	262) α Pictoris AR.	Δ	Dekl.	Δ	261) ϑ Geminorum AR.	Δ	Dekl.	Δ
1919	6h 41m		−16° 36′		6h 43m		+2° 29′		6h 47m		−61° 51′		6h 47m		+34° 3′	
Jan. 0.5	36.923 s	66	22.22 ″	243	40.699 s	89	60.27 ″	137	24.86 s	2	19.25 ″	372	30.073 s	119	30.01 ″	58
10.5	36.989	16	24.65	226	40.788	41	58.90	122	24.84	10	22.97	356	30.192	60	30.59	67
20.4	37.005	34	26.91	202	40.829	8	57.68	106	24.74	20	26.53	329	30.252	1	31.26	74
30.4	36.971	79	28.93	175	40.821	54	56.62	88	24.54	27	29.82	295	30.253	56	32.00	73
Feb. 9.4	36.892	119	30.68	146	40.767	96	55.74	70	24.27	34	32.77	254	30.197	107	32.73	70
19.4	36.773	154	32.14	113	40.671	131	55.04	52	23.93	39	35.31	206	30.090	151	33.43	61
März 1.3	36.619	178	33.27	81	40.540	156	54.52	36	23.54	44	37.37	157	29.939	183	34.04	49
11.3	36.441	192	34.08	48	40.384	173	54.16	19	23.10	47	38.94	105	29.756	204	34.53	34
21.3	36.249	198	34.56	15	40.211	178	53.97	4	22.63	48	39.99	50	29.552	212	34.87	17
31.2	36.051	192	34.71	17	40.033	174	53.93	11	22.15	48	40.49	3	29.340	208	35.04	2
Apr. 10.2	35.859	178	34.54	47	39.859	161	54.04	25	21.67	46	40.46	56	29.132	193	35.02	19
20.2	35.681	155	34.07	78	39.698	138	54.29	39	21.21	43	39.90	106	28.939	166	34.83	35
30.2	35.526	126	33.29	105	39.560	110	54.68	53	20.78	38	38.84	155	28.773	133	34.48	49
Mai 10.1	35.400	92	32.24	130	39.450	77	55.21	65	20.40	33	37.29	198	28.640	93	33.99	61
20.1	35.308	55	30.94	153	39.373	40	55.86	77	20.07	27	35.31	238	28.547	48	33.38	70
30.1	35.253	15	29.41	172	39.333	2	56.63	88	19.80	20	32.93	271	28.499	1	32.68	76
Juni 9.1	35.238	24	27.69	186	39.331	36	57.51	96	19.60	13	30.22	297	28.498	45	31.92	79
19.0	35.262	62	25.83	196	39.367	74	58.47	102	19.47	5	27.25	315	28.543	90	31.13	80
29.0	35.324	100	23.87	199	39.441	108	59.49	106	19.42	3	24.10	324	28.633	133	30.33	80
Juli 9.0	35.424	135	21.88	197	39.549	142	60.55	105	19.45	10	20.86	324	28.766	172	29.53	78
18.9	35.559	166	19.91	188	39.691	171	61.60	100	19.55	17	17.62	315	28.938	209	28.75	74
28.9	35.725	194	18.03	172	39.862	197	62.60	91	19.72	25	14.47	295	29.147	240	28.01	72
Aug. 7.9	35.919	219	16.31	150	40.059	220	63.51	79	19.97	32	11.52	265	29.387	268	27.29	68
17.9	36.138	241	14.81	121	40.279	241	64.30	61	20.29	37	8.87	226	29.655	291	26.61	65
27.8	36.379	258	13.60	87	40.520	256	64.91	39	20.66	42	6.61	178	29.946	311	25.96	62
Sept. 6.8	36.637	272	12.73	48	40.776	270	65.30	15	21.08	46	4.83	122	30.257	327	25.34	59
16.8	36.909	283	12.25	5	41.046	280	65.45	12	21.54	49	3.61	61	30.584	339	24.75	55
26.8	37.192	289	12.20	40	41.326	287	65.33	39	22.03	51	3.00	4	30.923	348	24.20	51
Okt. 6.7	37.481	290	12.60	84	41.613	290	64.94	67	22.54	51	3.04	70	31.271	352	23.69	46
16.7	37.771	288	13.44	127	41.903	289	64.27	91	23.05	49	3.74	135	31.623	352	23.23	38
26.7	38.059	279	14.71	165	42.192	284	63.36	115	23.54	47	5.09	196	31.975	346	22.85	30
Nov. 5.6	38.338	263	16.36	200	42.476	272	62.21	133	24.01	43	7.05	252	32.321	333	22.55	19
15.6	38.601	242	18.36	225	42.748	253	60.88	146	24.44	37	9.57	299	32.654	312	22.36	6
25.6	38.843	214	20.61	244	43.001	229	59.42	153	24.81	30	12.56	335	32.966	284	22.30	8
Dez. 5.6	39.057	179	23.05	254	43.230	197	57.89	156	25.11	22	15.91	361	33.250	246	22.38	24
15.5	39.236	138	25.59	256	43.427	159	56.33	151	25.33	14	19.52	374	33.496	202	22.62	39
25.5	39.374	93	28.15	249	43.586	115	54.82	142	25.47	5	23.26	376	33.698	149	23.01	52
35.5	39.467		30.64		43.701		53.40		25.52		27.02		33.847		23.53	
Mittl. Ort	34.591		16.35		38.289		66.21		21.68		14.92		27.136		36.40	
sec δ, tg δ	1.044		−0.298		1.001		+0.044		2.120		−1.869		1.207		+0.676	

*) Ort des Hauptsterns; die jährliche Parallaxe (0.″38) ist bereits berücksichtigt

Mittlere Zeit Greenw.	265) 15 Lyncis AR.		265) Dekl.		266) ϑ Canis maj. AR.		266) Dekl.		268) ε Canis maj. AR.		268) Dekl.		269) ζ Geminorum AR.		269) Dekl.	
1919	$6^h 50^m$		+58° 31′		$6^h 50^m$		−11° 56′		$6^h 55^m$		−28° 51′		$6^h 59^m$		+20° 41′	
Jan. 0.5	20.322	157	43.47	198	27.937	84	16.42	219	28.875	73	45.09	299	20.990	119	17.95	29
10.5	20.479	65	45.45	203	28.021	35	18.61	204	28.948	19	48.08	283	21.109	67	17.66	16
20.5	20.544	25	47.48	200	28.056	15	20.65	183	28.967	34	50.91	259	21.176	14	17.50	4
30.4	20.519	112	49.48	188	28.041	61	22.48	158	28.933	84	53.50	230	21.190	37	17.46	6
Feb. 9.4	20.407	190	51.36	169	27.980	102	24.06	132	28.849	129	55.80	195	21.153	85	17.52	12
19.4	20.217	257	53.05	141	27.878	138	25.38	103	28.720	167	57.75	157	21.068	125	17.64	17
März 1.3	19.960	308	54.46	107	27.740	165	26.41	75	28.553	195	59.32	118	20.943	155	17.81	17
11.3	19.652	342	55.53	70	27.575	181	27.16	45	28.358	214	60.50	78	20.788	175	17.98	17
21.3	19.310	356	56.23	29	27.394	188	27.61	17	28.144	222	61.28	35	20.613	185	18.15	14
31.3	18.954	353	56.52	13	27.206	185	27.78	11	27.922	220	61.63	5	20.428	183	18.29	10
Apr. 10.2	18.601	330	56.39	53	27.021	173	27.67	39	27.702	208	61.58	45	20.245	171	18.39	5
20.2	18.271	293	55.86	91	26.848	152	27.28	65	27.494	188	61.13	84	20.074	150	18.44	1
30.2	17.978	243	54.95	124	26.696	125	26.63	90	27.306	160	60.29	120	19.924	122	18.45	2
Mai 10.2	17.735	182	53.71	153	26.571	93	25.73	113	27.146	128	59.09	155	19.802	87	18.43	4
20.1	17.553	115	52.18	177	26.478	58	24.60	133	27.018	90	57.54	183	19.715	49	18.39	5
30.1	17.438	44	50.41	194	26.420	20	23.27	151	26.928	51	55.71	209	19.666	9	18.34	6
Juni 9.1	17.394	30	48.47	206	26.400	18	21.76	165	26.877	9	53.62	229	19.657	31	18.28	5
19.0	17.424	101	46.41	212	26.418	55	20.11	174	26.868	32	51.33	243	19.688	70	18.23	5
29.0	17.525	171	44.29	213	26.473	92	18.37	179	26.900	72	48.90	250	19.758	109	18.18	4
Juli 9.0	17.696	235	42.16	209	26.565	126	16.58	178	26.972	110	46.40	250	19.867	143	18.14	4
19.0	17.931	296	40.07	200	26.691	156	14.80	171	27.082	147	43.90	242	20.010	175	18.10	6
28.9	18.227	349	38.07	188	26.847	184	13.09	158	27.229	181	41.48	225	20.185	203	18.04	8
Aug. 7.9	18.576	395	36.19	172	27.031	210	11.51	139	27.410	211	39.23	202	20.388	229	17.96	13
17.9	18.971	436	34.47	154	27.241	231	10.12	113	27.621	238	37.21	169	20.617	251	17.83	19
27.8	19.407	471	32.93	133	27.472	250	8.99	83	27.859	262	35.52	129	20.868	269	17.64	27
Sept. 6.8	19.878	497	31.60	109	27.722	265	8.16	47	28.121	281	34.23	85	21.137	286	17.37	36
16.8	20.375	519	30.51	84	27.987	278	7.69	8	28.402	296	33.38	34	21.423	298	17.01	45
26.8	20.894	531	29.67	58	28.265	286	7.61	32	28.698	307	33.04	18	21.721	308	16.56	55
Okt. 6.7	21.425	538	29.09	28	28.551	290	7.93	73	29.005	311	33.22	72	22.029	314	16.01	64
16.7	21.963	535	28.81	2	28.841	289	8.66	112	29.316	310	33.94	125	22.343	316	15.37	71
26.7	22.498	523	28.83	32	29.130	283	9.78	148	29.626	302	35.19	173	22.659	312	14.66	75
Nov. 5.7	23.021	500	29.15	65	29.413	271	11.26	178	29.928	287	36.92	217	22.971	304	13.91	77
15.6	23.521	465	29.80	96	29.684	253	13.04	204	30.215	265	39.09	252	23.275	287	13.14	74
25.6	23.986	418	30.76	126	29.937	227	15.08	220	30.480	235	41.61	280	23.562	263	12.40	69
Dez. 5.6	24.404	358	32.02	153	30.164	194	17.28	229	30.715	196	44.41	298	23.825	231	11.71	60
15.5	24.762	287	33.55	175	30.358	154	19.57	231	30.911	152	47.39	305	24.056	193	11.11	48
25.5	25.049	205	35.30	193	30.512	110	21.88	225	31.063	103	50.44	303	24.249	146	10.63	35
35.5	25.254		37.23		30.622		24.13		31.166		53.47		24.395		10.28	
Mittl. Ort	16.055		50.06		25.600		10.65		26.506		39.93		18.370		24.93	
sec δ, tg δ	1.916		+1.634		1.022		−0.211		1.142		−0.551		1.069		+0.378	

Mittlere Zeit Greenw.	271) γ Canis maj.				273) δ Canis maj.				274) 63 Aurigae				277) λ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$7^h\,0^m$		−15° 30′		$7^h\,5^m$		−26° 15′		$7^h\,6^m$		+39° 26′		$7^h\,13^m$		+16° 40′	
Jan. 0.5	7.991	91	51.68	240	8.189	86	54.94	291	8.293	146	66.39	86	28.894	130	67.52	59
10.5	8.082	41	54.08	225	8.275	33	57.85	277	8.439	85	67.25	98	29.024	78	66.93	43
20.5	8.123	9	56.33	204	8.308	19	60.62	254	8.524	20	68.23	105	29.102	27	66.50	29
30.4	8.114	57	58.37	179	8.289	70	63.16	225	8.544	42	69.28	107	29.129	25	66.21	17
Feb. 9.4	8.057	100	60.16	150	8.219	115	65.41	193	8.502	100	70.35	101	29.104	72	66.04	5
19.4	7.957	137	61.66	120	8.104	153	67.34	158	8.402	148	71.36	91	29.032	113	65.99	3
März 1.4	7.820	164	62.86	88	7.951	183	68.92	120	8.254	187	72.27	76	28.919	144	66.02	9
11.3	7.656	183	63.74	57	7.768	202	70.12	80	8.067	213	73.03	57	28.775	167	66.11	12
21.3	7.473	191	64.31	25	7.566	213	70.92	41	7.854	226	73.60	34	28.608	178	66.23	14
31.3	7.282	190	64.56	6	7.353	212	71.33	2	7.628	227	73.94	12	28.430	178	66.37	14
Apr. 10.2	7.092	179	64.50	36	7.141	201	71.35	37	7.401	214	74.06	12	28.252	170	66.51	13
20.2	6.913	159	64.14	66	6.940	183	70.98	74	7.187	190	73.94	35	28.082	151	66.64	14
30.2	6.754	134	63.48	93	6.757	158	70.24	109	6.997	157	73.59	56	27.931	125	66.78	13
Mai 10.2	6.620	104	62.55	118	6.599	127	69.15	141	6.840	117	73.03	73	27.806	93	66.91	12
20.1	6.516	68	61.37	141	6.472	91	67.74	170	6.723	73	72.30	88	27.713	59	67.03	14
30.1	6.448	32	59.96	162	6.381	53	66.04	196	6.650	25	71.42	99	27.654	21	67.17	14
Juni 9.1	6.416	6	58.34	176	6.328	14	64.08	215	6.625	23	70.43	107	27.633	18	67.31	15
19.1	6.422	44	56.58	188	6.314	27	61.93	230	6.648	71	69.36	113	27.651	55	67.46	16
29.0	6.466	80	54.70	193	6.341	65	59.63	237	6.719	117	68.23	116	27.706	91	67.62	16
Juli 9.0	6.546	114	52.77	193	6.406	102	57.26	238	6.836	160	67.07	115	27.797	126	67.78	15
19.0	6.660	146	50.84	186	6.508	138	54.88	232	6.996	200	65.92	114	27.923	157	67.93	12
28.9	6.806	176	48.98	173	6.646	171	52.56	216	7.196	235	64.78	111	28.080	185	68.05	7
Aug. 7.9	6.982	203	47.25	153	6.817	202	50.40	194	7.431	267	63.67	107	28.265	211	68.12	0
17.9	7.185	226	45.72	127	7.019	228	48.46	164	7.698	294	62.60	101	28.476	234	68.12	10
27.9	7.411	246	44.45	94	7.247	252	46.82	127	7.992	318	61.59	96	28.710	254	68.02	20
Sept. 6.8	7.657	263	43.51	57	7.499	272	45.55	84	8.310	339	60.63	89	28.964	272	67.82	33
16.8	7.920	278	42.94	16	7.771	289	44.71	36	8.649	355	59.74	81	29.236	286	67.49	47
26.8	8.198	287	42.78	27	8.060	300	44.35	16	9.004	368	58.93	72	29.522	297	67.02	60
Okt. 6.8	8.485	293	43.05	72	8.360	306	44.51	67	9.372	375	58.21	61	29.819	307	66.42	74
16.7	8.778	294	43.77	113	8.666	308	45.18	118	9.747	379	57.60	49	30.126	310	65.68	85
26.7	9.072	290	44.90	153	8.974	303	46.36	165	10.126	376	57.11	35	30.436	309	64.83	94
Nov. 5.7	9.362	278	46.43	187	9.277	290	48.01	208	10.502	365	56.76	17	30.745	303	63.89	98
15.6	9.640	260	48.30	214	9.567	269	50.09	244	10.867	346	56.59	1	31.048	289	62.91	100
25.6	9.900	234	50.44	235	9.836	242	52.53	271	11.213	318	56.60	21	31.337	267	61.91	96
Dez. 5.6	10.134	202	52.79	247	10.078	206	55.24	288	11.531	280	56.81	42	31.604	237	60.95	89
15.6	10.336	162	55.26	250	10.284	163	58.12	296	11.811	234	57.23	61	31.841	200	60.06	78
25.5	10.498	118	57.76	246	10.447	116	61.08	295	12.045	180	57.84	79	32.041	157	59.28	66
35.5	10.616		60.22		10.563		64.03		12.225		58.63		32.198		58.62	
Mittl. Ort	5.659		45.99		5.833		49.81		5.214		74.30		26.355		75.08	
sec δ, tg δ	1.038		−0.278		1.115		−0.493		1.295		+0.823		1.044		+0.300	

Mittlere Zeit Greenw.	278) π Argus AR.		Dekl.		279) δ Geminorum AR.		Dekl.		280) 19 Lyncis sq. AR.		Dekl.		281) δ Volantis AR.		Dekl.	
1919	7h 14m		−36° 56′		7h 15m		+22° 7′		7h 16m		+55° 25′		7h 16m		−67° 48′	
Jan. 0.5	19.321	87	69.28	333	19.864	137	49.59	24	19.760	192	58.64	174	56.31	4	34.98	383
10.5	19.408	28	72.61	320	20.001	84	49.35	10	19.952	109	60.38	187	56.35	8	38.81	375
20.5	19.436	31	75.81	298	20.085	30	49.25	4	20.061	24	62.25	190	56.27	20	42.56	356
30.4	19.405	85	78.79	270	20.115	23	49.29	14	20.085	59	64.15	187	56.07	30	46.12	327
Feb. 9.4	19.320	135	81.49	234	20.092	72	49.43	22	20.026	137	66.02	174	55.77	39	49.39	291
19.4	19.185	177	83.83	195	20.020	115	49.65	26	19.889	204	67.76	153	55.38	46	52.30	249
März 1.4	19.008	211	85.78	153	19.905	148	49.91	27	19.685	258	69.29	126	54.92	53	54.79	203
11.3	18.797	234	87.31	108	19.757	171	50.18	26	19.427	297	70.55	94	54.39	57	56.82	152
21.3	18.563	246	88.39	63	19.586	184	50.44	22	19.130	318	71.49	57	53.82	59	58.34	100
31.3	18.317	247	89.02	17	19.402	184	50.66	16	18.812	321	72.06	18	53.23	60	59.34	46
Apr. 10.3	18.070	239	89.19	27	19.218	175	50.82	10	18.491	310	72.24	21	52.63	60	59.80	8
20.2	17.831	221	88.92	72	19.043	157	50.92	5	18.181	282	72.03	57	52.03	57	59.72	61
30.2	17.610	196	88.20	113	18.886	130	50.97	2	17.899	242	71.46	92	51.46	52	59.11	111
Mai 10.2	17.414	164	87.07	152	18.756	98	50.95	5	17.657	192	70.54	123	50.94	48	58.00	159
20.1	17.250	127	85.55	187	18.658	62	50.90	10	17.465	135	69.31	149	50.46	40	56.41	203
30.1	17.123	87	83.68	217	18.596	23	50.80	12	17.330	72	67.82	170	50.06	34	54.38	242
Juni 9.1	17.036	45	81.51	241	18.573	16	50.68	14	17.258	8	66.12	186	49.72	24	51.96	274
19.1	16.991	1	79.10	260	18.589	56	50.54	15	17.250	56	64.26	198	49.48	16	49.22	298
29.0	16.990	42	76.50	271	18.645	94	50.39	16	17.306	120	62.28	202	49.32	7	46.24	314
Juli 9.0	17.032	85	73.79	274	18.739	129	50.23	19	17.426	179	60.26	204	49.25	3	43.10	323
19.0	17.117	126	71.05	268	18.868	161	50.04	20	17.605	235	58.22	201	49.28	13	39.87	320
29.0	17.243	165	68.37	254	19.029	191	49.84	23	17.840	287	56.21	195	49.41	22	36.67	307
Aug. 7.9	17.408	201	65.83	230	19.220	217	49.61	29	18.127	332	54.26	184	49.63	31	33.60	284
17.9	17.609	234	63.53	199	19.437	241	49.32	34	18.459	374	52.42	171	49.94	39	30.76	251
27.9	17.843	264	61.54	159	19.678	262	48.98	42	18.833	409	50.71	155	50.33	47	28.25	208
Sept. 6.8	18.107	289	59.95	111	19.940	280	48.56	49	19.242	439	49.16	137	50.80	52	26.17	158
16.8	18.396	310	58.84	59	20.220	296	48.07	59	19.681	465	47.79	116	51.32	58	24.59	99
26.8	18.706	325	58.25	3	20.516	307	47.48	68	20.146	483	46.63	93	51.90	62	23.60	36
Okt. 6.8	19.031	333	58.22	56	20.823	316	46.80	74	20.629	496	45.70	67	52.52	62	23.24	31
16.7	19.364	336	58.78	114	21.139	321	46.06	80	21.125	500	45.03	39	53.14	62	23.55	97
26.7	19.700	330	59.92	169	21.460	321	45.26	83	21.625	497	44.64	9	53.76	60	24.52	161
Nov. 5.7	20.030	315	61.61	219	21.781	314	44.43	83	22.122	483	44.55	22	54.36	56	26.13	222
15.7	20.345	293	63.80	261	22.095	299	43.60	78	22.605	458	44.77	54	54.92	49	28.35	274
25.6	20.638	261	66.41	295	22.394	278	42.82	71	23.063	421	45.31	86	55.41	42	31.09	317
Dez. 5.6	20.899	220	69.36	319	22.672	248	42.11	60	23.484	370	46.17	116	55.83	32	34.26	351
15.6	21.119	173	72.55	332	22.920	209	41.51	47	23.854	309	47.33	143	56.15	22	37.77	372
25.5	21.292	119	75.87	335	23.129	165	41.04	32	24.163	237	48.76	165	56.37	10	41.49	382
35.5	21.411		79.22		23.294		40.72		24.400		50.41		56.47		45.31	
Mittl. Ort	16.876		64.98		17.243		57.53		15.860		67.76		52.59		32.52	
sec δ, tg δ	1.251		−0.752		1.080		+0.407		1.763		+1.452		2.648		−2.452	

Mittlere Zeit Greenw.	282) ι Geminorum AR.		282) ι Geminorum Dekl.		284) Gr. 1308 AR.		284) Gr. 1308 Dekl.	
	7h 20m		+27° 57′		7h 22m		+68° 37′	
1919	s		″		s		″	
Jan. 0.5	44.628	149	28.30	10	33.47	27	48.80	237
10.5	44.777	93	28.40	25	33.74	14	51.17	249
20.5	44.870	36	28.65	38	33.88	1	53.66	250
30.4	44.906	19	29.03	47	33.89	11	56.16	243
Feb. 9.4	44.887	71	29.50	52	33.78	23	58.59	224
19.4	44.816	116	30.02	52	33.55	34	60.83	196
März 1.4	44.700	153	30.54	49	33.21	41	62.79	160
11.3	44.547	177	31.03	41	32.80	48	64.39	119
21.3	44.370	192	31.44	32	32.32	52	65.58	71
31.3	44.178	194	31.76	21	31.80	53	66.29	23
Apr. 10.3	43.984	186	31.97	8	31.27	51	66.52	27
20.2	43.798	167	32.05	3	30.76	48	66.25	74
30.2	43.631	140	32.02	15	30.28	42	65.51	119
Mai 10.2	43.491	108	31.87	25	29.86	35	64.32	158
20.1	43.383	69	31.62	34	29.51	26	62.74	192
30.1	43.314	30	31.28	40	29.25	17	60.82	220
Juni 9.1	43.284	11	30.88	45	29.08	8	58.62	242
19.1	43.295	52	30.43	49	29.00	3	56.20	255
29.0	43.347	91	29.94	52	29.03	13	53.65	264
Juli 9.0	43.438	129	29.42	54	29.16	22	51.01	266
19.0	43.567	163	28.88	56	29.38	31	48.35	261
29.0	43.730	194	28.32	59	29.69	39	45.74	253
Aug. 7.9	43.924	223	27.73	61	30.08	48	43.21	237
17.9	44.147	248	27.12	63	30.56	54	40.84	219
27.9	44.395	270	26.49	68	31.10	60	38.65	196
Sept. 6.8	44.665	290	25.81	71	31.70	65	36.69	169
16.8	44.955	307	25.10	74	32.35	69	35.00	139
26.8	45.262	320	24.36	78	33.04	73	33.61	106
Okt. 6.8	45.582	330	23.58	79	33.77	74	32.55	69
16.7	45.912	336	22.79	78	34.51	75	31.86	31
26.7	46.248	336	22.01	75	35.26	74	31.55	9
Nov. 5.7	46.584	330	21.26	68	36.00	72	31.64	50
15.7	46.914	316	20.58	59	36.72	68	32.14	92
25.6	47.230	295	19.99	47	37.40	62	33.06	132
Dez. 5.6	47.525	263	19.52	31	38.02	55	34.38	169
15.6	47.788	224	19.21	16	38.57	44	36.07	201
25.5	48.012	177	19.05	3	39.01	34	38.08	226
35.5	48.189		19.08		39.35		40.34	
Mittl. Ort	41.904		36.84		27.91		58.70	
sec δ, tg δ	1.132		+0.531		2.745		+2.556	

Mittlere Zeit Greenw.	285) β Canis min. AR.		285) β Canis min. Dekl.		286) ρ Geminorum AR.		286) ρ Geminorum Dekl.	
	7h 22m		+8° 26′		7h 23m		+31° 56′	
1919	s		″		s		″	
Jan. 0.5	47.981	132	65.29	112	57.055	157	39.64	35
10.5	48.113	83	64.17	97	57.212	101	39.99	50
20.5	48.196	31	63.20	80	57.313	41	40.49	63
30.4	48.227	18	62.40	63	57.354	17	41.12	70
Feb. 9.4	48.209	65	61.77	47	57.337	71	41.82	73
19.4	48.144	104	61.30	31	57.266	119	42.55	70
März 1.4	48.040	136	60.99	19	57.147	157	43.25	65
11.3	47.904	159	60.80	7	56.990	183	43.90	53
21.3	47.745	171	60.73	4	56.807	199	44.43	40
31.3	47.574	173	60.77	12	56.608	202	44.83	25
Apr. 10.3	47.401	166	60.89	20	56.406	194	45.08	8
20.2	47.235	149	61.09	28	56.212	176	45.16	7
30.2	47.086	126	61.37	34	56.036	148	45.09	24
Mai 10.2	46.960	98	61.71	41	55.888	115	44.85	36
20.1	46.862	64	62.12	47	55.773	76	44.49	49
30.1	46.798	29	62.59	53	55.697	35	44.00	58
Juni 9.1	46.769	6	63.12	56	55.662	7	43.42	66
19.1	46.775	43	63.68	61	55.669	50	42.76	71
29.0	46.818	77	64.29	61	55.719	91	42.05	75
Juli 9.0	46.895	110	64.90	60	55.810	130	41.30	77
19.0	47.005	141	65.50	56	55.940	166	40.53	80
29.0	47.146	169	66.06	49	56.106	199	39.73	81
Aug. 7.9	47.315	194	66.55	38	56.305	228	38.92	82
17.9	47.509	218	66.93	25	56.533	255	38.10	83
27.9	47.727	238	67.18	7	56.788	279	37.27	84
Sept. 6.8	47.965	257	67.25	12	57.067	300	36.43	84
16.8	48.222	272	67.13	33	57.367	317	35.59	85
26.8	48.494	285	66.80	55	57.684	332	34.74	83
Okt. 6.8	48.779	295	66.25	77	58.016	343	33.91	81
16.7	49.074	301	65.48	96	58.359	350	33.10	77
26.7	49.375	300	64.52	114	58.709	350	32.33	68
Nov. 5.7	49.675	296	63.38	127	59.059	344	31.65	59
15.7	49.971	283	62.11	136	59.403	330	31.06	45
25.6	50.254	263	60.75	139	59.733	307	30.61	29
Dez. 5.6	50.517	236	59.36	136	60.040	276	30.32	11
15.6	50.753	199	58.00	130	60.316	236	30.21	7
25.5	50.952	158	56.70	119	60.552	187	30.28	26
35.5	51.110		55.51		60.739		30.54	
Mittl. Ort	45.553		72.76		54.245		48.60	
sec δ, tg δ	1.011		+0.149		1.178		+0.624	

Mittlere Zeit Greenw.	287) α Geminorum[1] AR.		287) Dekl.		289) 25 Monocerotis AR.		289) Dekl.		291) α Canis min.[2] AR.		291) Dekl.		292) 24 Lyncis AR.		292) Dekl.	
	$7^h\ 29^m$		$+32°\ 3'$		$7^h\ 33^m$		$-3°\ 55'$		$7^h\ 35^m$		$+5°\ 25'$		$7^h\ 36^m$		$+58°\ 53'$	
1919	s		"		s		"		s		"		s		"	
Jan. 0.5	28.750	163	54.31	33	17.418	133	51.93	188	6.101	136	53.34	136	13.828	239	53.83	184
10.5	28.913	106	54.64	49	17.551	83	53.81	173	6.237	88	51.98	120	14.067	148	55.67	201
20.5	29.019	47	55.13	62	17.634	34	55.54	154	6.325	37	50.78	102	14.215	56	57.68	209
30.5	29.066	12	55.75	71	17.668	16	57.08	134	6.362	13	49.76	82	14.271	38	59.77	209
Feb. 9.4	29.054	67	56.46	74	17.652	61	58.42	110	6.349	59	48.94	64	14.233	124	61.86	198
19.4	28.987	114	57.20	73	17.591	101	59.52	87	6.290	100	48.30	47	14.109	203	63.84	179
März 1.4	28.873	154	57.93	67	17.490	134	60.39	64	6.190	133	47.83	30	13.906	266	65.63	153
11.3	28.719	182	58.60	56	17.356	157	61.03	42	6.057	155	47.53	15	13.640	314	67.16	119
21.3	28.537	198	59.16	43	17.199	169	61.45	19	5.902	169	47.38	2	13.326	344	68.35	82
31.3	28.339	203	59.59	28	17.030	175	61.64	1	5.733	173	47.36	10	12.982	355	69.17	40
Apr. 10.3	28.136	195	59.87	11	16.855	168	61.63	21	5.560	166	47.46	20	12.627	349	69.57	1
20.2	27.941	178	59.98	5	16.687	154	61.42	40	5.394	152	47.66	31	12.278	327	69.56	42
30.2	27.763	152	59.93	21	16.533	133	61.02	58	5.242	130	47.97	39	11.951	289	69.14	82
Mai 10.2	27.611	119	59.72	36	16.400	107	60.44	75	5.112	103	48.36	48	11.662	240	68.32	117
20.2	27.492	82	59.36	47	16.293	76	59.69	90	5.009	71	48.84	56	11.422	182	67.15	148
30.1	27.410	41	58.89	58	16.217	44	58.79	104	4.938	37	49.40	62	11.240	118	65.67	175
Juni 9.1	27.369	1	58.31	67	16.173	9	57.75	114	4.901	2	50.02	68	11.122	50	63.92	196
19.1	27.370	44	57.64	72	16.164	26	56.61	122	4.899	32	50.70	71	11.072	18	61.96	211
29.0	27.414	84	56.92	78	16.190	59	55.39	126	4.931	67	51.41	72	11.090	87	59.85	221
Juli 9.0	27.498	123	56.14	80	16.249	91	54.13	127	4.998	100	52.13	71	11.177	153	57.64	227
19.0	27.621	160	55.34	83	16.340	123	52.86	122	5.098	129	52.84	67	11.330	216	55.37	227
29.0	27.781	192	54.51	86	16.463	151	51.64	112	5.227	158	53.51	58	11.546	274	53.10	222
Aug. 7.9	27.973	222	53.65	86	16.614	178	50.52	99	5.385	184	54.09	46	11.820	327	50.88	215
17.9	28.195	250	52.79	88	16.792	202	49.53	78	5.569	208	54.55	31	12.147	376	48.73	203
27.9	28.445	275	51.91	89	16.994	224	48.75	55	5.777	229	54.86	12	12.523	419	46.70	186
Sept. 6.9	28.720	296	51.02	91	17.218	245	48.20	26	6.006	248	54.98	10	12.942	457	44.84	169
16.8	29.016	314	50.11	90	17.463	262	47.94	4	6.254	265	54.88	34	13.399	489	43.15	146
26.8	29.330	330	49.21	89	17.725	276	47.98	38	6.519	280	54.54	58	13.888	515	41.69	122
Okt. 6.8	29.660	342	48.32	88	18.001	288	48.36	72	6.799	290	53.96	83	14.403	534	40.47	93
16.7	30.002	349	47.44	81	18.289	294	49.08	104	7.089	297	53.13	106	14.937	544	39.54	63
26.7	30.351	350	46.63	74	18.583	297	50.12	134	7.386	299	52.07	126	15.481	545	38.91	30
Nov. 5.7	30.701	346	45.89	64	18.880	292	51.46	159	7.685	294	50.81	142	16.026	535	38.61	5
15.7	31.047	333	45.25	50	19.172	280	53.05	179	7.979	283	49.39	154	16.561	513	38.66	42
25.6	31.380	311	44.75	34	19.452	261	54.84	193	8.262	265	47.85	159	17.074	476	39.08	78
Dez. 5.6	31.691	280	44.41	15	19.713	234	56.77	200	8.527	238	46.26	159	17.550	426	39.86	114
15.6	31.971	241	44.26	4	19.947	199	58.77	199	8.765	203	44.67	153	17.976	363	41.00	145
25.6	32.212	193	44.30	24	20.146	158	60.76	193	8.968	162	43.14	142	18.339	286	42.45	172
35.5	32.405		44.54		20.304		62.69		9.130		41.72		18.625		44.17	
Mittl. Ort	25.951		63.65		15.088		45.20		3.713		61.06		9.727		64.92	
sec δ, tg δ	1.180		+0.626		1.002		−0.069		1.005		+0.095		1.936		+1.658	

[1]) AR. der Mitte; Dekl. des folgenden helleren Sterns

[2]) Ort des hellen Sterns; die jährliche Parallaxe (0.″33) ist bereits berücksichtigt

Mittlere Zeit Greenw.	294) κ Geminorum AR.		Dekl.		295) β Geminorum AR.		Dekl.		296) π Geminorum AR.		Dekl.		297) ζ Volantis AR.		Dekl.	
	7h 39m		+24° 35′		7h 40m		+28° 13′		7h 42m		+33° 36′		7h 42m		−72° 24′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.5	36.223	164	26.53	17	24.403	169	12.77	4	20.051	180	45.94	37	53.75	10	43.00	385
10.5	36.387	111	26.36	0	24.572	113	12.81	23	20.231	122	46.31	56	53.85	4	46.85	383
20.5	36.498	56	26.36	16	24.685	57	13.04	38	20.353	62	46.87	71	53.81	18	50.68	372
30.5	36.554	0	26.52	29	24.742	1	13.42	50	20.415	1	47.58	81	53.63	32	54.40	349
Feb. 9.4	36.554	52	26.81	38	24.741	54	13.92	57	20.416	55	48.39	85	53.31	43	57.89	320
19.4	36.502	98	27.19	43	24.687	101	14.49	60	20.361	105	49.24	85	52.88	54	61.09	282
März 1.4	36.404	135	27.62	44	24.586	141	15.09	58	20.256	147	50.09	79	52.34	61	63.91	240
11.4	36.269	163	28.06	42	24.445	169	15.67	53	20.109	179	50.88	68	51.73	69	66.31	193
21.3	36.106	180	28.48	37	24.276	187	16.20	44	19.930	197	51.56	54	51.04	73	68.24	142
31.3	35.926	185	28.85	29	24.089	194	16.64	32	19.733	204	52.10	38	50.31	75	69.66	90
Apr. 10.3	35.741	180	29.14	20	23.895	188	16.96	20	19.529	200	52.48	19	49.56	75	70.56	36
20.2	35.561	166	29.34	11	23.707	173	17.16	6	19.329	184	52.67	1	48.81	73	70.92	18
30.2	35.395	143	29.45	1	23.534	150	17.22	6	19.145	161	52.68	17	48.08	70	70.74	70
Mai 10.2	35.252	114	29.46	7	23.384	121	17.16	18	18.984	129	52.51	34	47.38	64	70.04	120
20.2	35.138	80	29.39	14	23.263	85	16.98	28	18.855	93	52.17	48	46.74	58	68.84	167
30.1	35.058	44	29.25	21	23.178	48	16.70	38	18.762	54	51.69	62	46.16	49	67.17	211
Juni 9.1	35.014	5	29.04	27	23.130	8	16.32	45	18.708	12	51.07	72	45.67	40	65.06	247
19.1	35.009	33	28.77	31	23.122	31	15.87	51	18.696	30	50.35	81	45.27	29	62.59	278
29.1	35.042	70	28.46	35	23.153	70	15.36	56	18.726	71	49.54	87	44.98	18	59.81	301
Juli 9.0	35.112	106	28.11	39	23.223	106	14.80	61	18.797	111	48.67	93	44.80	7	56.80	314
19.0	35.218	140	27.72	44	23.329	142	14.19	65	18.908	147	47.74	97	44.73	6	53.66	319
29.0	35.358	171	27.28	48	23.471	174	13.54	69	19.055	182	46.77	99	44.79	18	50.47	314
Aug. 7.9	35.529	199	26.80	53	23.645	203	12.85	73	19.237	213	45.78	102	44.97	30	47.33	297
17.9	35.728	225	26.27	58	23.848	230	12.12	77	19.450	242	44.76	104	45.27	41	44.36	270
27.9	35.953	249	25.69	66	24.078	255	11.35	81	19.692	268	43.72	104	45.68	51	41.66	234
Sept. 6.9	36.202	270	25.03	75	24.333	277	10.54	87	19.960	292	42.68	106	46.19	60	39.32	187
16.8	36.472	290	24.28	81	24.610	296	9.67	90	20.252	313	41.62	105	46.79	68	37.45	133
26.8	36.762	305	23.47	87	24.906	313	8.77	94	20.565	330	40.57	103	47.47	73	36.12	73
Okt. 6.8	37.067	319	22.60	93	25.219	327	7.83	95	20.895	345	39.54	99	48.20	76	35.39	8
16.8	37.386	327	21.67	96	25.546	336	6.88	94	21.240	355	38.55	92	48.96	78	35.31	59
26.7	37.713	331	20.71	96	25.882	340	5.94	91	21.595	358	37.63	84	49.74	75	35.90	126
Nov. 5.7	38.044	329	19.75	93	26.222	336	5.03	84	21.953	356	36.79	71	50.49	72	37.16	188
15.7	38.373	318	18.82	86	26.558	326	4.19	73	22.309	345	36.08	55	51.21	65	39.04	245
25.6	38.691	299	17.96	75	26.884	308	3.46	60	22.654	325	35.53	37	51.86	56	41.49	294
Dez. 5.6	38.990	272	17.21	61	27.192	279	2.86	43	22.979	296	35.16	16	52.42	45	44.43	333
15.6	39.262	235	16.60	45	27.471	241	2.43	24	23.275	257	35.00	6	52.87	32	47.76	362
25.6	39.497	192	16.15	27	27.712	197	2.19	5	23.532	209	35.06	26	53.19	19	51.38	378
35.5	39.689		15.88		27.909		2.14		23.741		35.32		53.38		55.16	
Mittl. Ort	33.610		35.99		21.722		22.55		17.250		56.25		49.38		42.32	
sec δ, tg δ	1.099		+0.458		1.135		+0.537		1.201		+0.665		3.309		−3.155	

Mittlere Zeit Greenw.	300) Gr. 1374 AR.		Dekl.		303) χ Argus AR.		Dekl.		305) χ Geminorum AR.		Dekl.		306) ζ Argus AR.		Dekl.	
1919	$7^h\ 50^m$		$+74^\circ\ 7'$		$7^h\ 54^m$		$-52^\circ\ 45'$		$7^h\ 58^m$		$+28^\circ\ 0'$		$8^h\ 0^m$		$-39^\circ\ 46'$	
Jan. 0.6	38.45	42	58.16	246	45.981	134	53.58	377	35.414	188	70.09	3	46.633	144	30.20	348
10.5	38.87	25	60.62	265	46.115	59	57.35	373	35.602	135	70.06	17	46.777	85	33.68	343
20.5	39.12	9	63.27	273	46.174	15	61.08	360	35.737	77	70.23	34	46.862	23	37.11	329
30.5	39.21	8	66.00	271	46.159	88	64.68	338	35.814	20	70.57	49	46.885	37	40.40	307
Feb. 9.4	39.13	24	68.71	257	46.071	154	68.06	307	35.834	35	71.06	59	46.848	93	43.47	276
19.4	38.89	39	71.28	232	45.917	213	71.13	270	35.799	85	71.65	64	46.755	142	46.23	241
März 1.4	38.50	52	73.60	199	45.704	261	73.83	228	35.714	126	72.29	65	46.613	183	48.64	202
11.4	37.98	61	75.59	157	45.443	297	76.11	182	35.588	157	72.94	61	46.430	214	50.66	160
21.3	37.37	67	77.16	109	45.146	323	77.93	133	35.431	178	73.55	53	46.216	235	52.26	116
31.3	36.70	71	78.25	57	44.823	336	79.26	83	35.253	187	74.08	43	45.981	246	53.42	68
Apr. 10.3	35.99	71	78.82	4	44.487	335	80.09	32	35.066	186	74.51	30	45.735	246	54.10	23
20.3	35.28	69	78.86	48	44.152	326	80.41	20	34.880	175	74.81	17	45.489	238	54.33	23
30.2	34.59	62	78.38	98	43.826	305	80.21	69	34.705	155	74.98	4	45.251	220	54.10	67
Mai 10.2	33.97	55	77.40	144	43.521	277	79.52	118	34.550	128	75.02	9	45.031	196	53.43	110
20.2	33.42	45	75.96	186	43.244	240	78.34	161	34.422	96	74.93	22	44.835	166	52.33	149
30.1	32.97	34	74.10	220	43.004	198	76.73	203	34.326	61	74.71	32	44.669	132	50.84	185
Juni 9.1	32.63	22	71.90	249	42.806	150	74.70	237	34.265	23	74.39	41	44.537	95	48.99	215
19.1	32.41	9	69.41	271	42.656	99	72.33	266	34.242	14	73.98	50	44.442	54	46.84	240
29.1	32.32	4	66.70	285	42.557	45	69.67	286	34.256	52	73.48	57	44.388	12	44.44	258
Juli 9.0	32.36	17	63.85	293	42.512	10	66.81	300	34.308	89	72.91	63	44.376	29	41.86	269
19.0	32.53	29	60.92	295	42.522	66	63.81	303	34.397	123	72.28	69	44.405	72	39.17	271
29.0	32.82	41	57.97	289	42.588	122	60.78	297	34.520	155	71.59	75	44.477	114	36.46	265
Aug. 8.0	33.23	52	55.08	278	42.710	177	57.81	280	34.675	186	70.84	81	44.591	155	33.81	248
17.9	33.75	62	52.30	263	42.887	229	55.01	255	34.861	214	70.03	86	44.746	193	31.33	224
27.9	34.37	71	49.67	240	43.116	277	52.46	218	35.075	240	69.17	93	44.939	231	29.09	189
Sept. 6.9	35.08	79	47.27	215	43.393	322	50.28	173	35.315	265	68.24	98	45.170	264	27.20	148
16.8	35.87	85	45.12	183	43.715	360	48.55	120	35.580	287	67.26	104	45.434	295	25.72	97
26.8	36.72	92	43.29	149	44.075	391	47.35	62	35.867	306	66.22	107	45.729	319	24.75	44
Okt. 6.8	37.64	95	41.80	111	44.466	413	46.73	1	36.173	322	65.15	110	46.048	339	24.31	15
16.8	38.59	97	40.69	68	44.879	424	46.74	66	36.495	335	64.05	109	46.387	351	24.46	74
26.7	39.56	98	40.01	24	45.303	425	47.40	130	36.830	342	62.96	107	46.738	355	25.20	133
Nov. 5.7	40.54	96	39.77	23	45.728	412	48.70	190	37.172	342	61.89	99	47.093	350	26.53	188
15.7	41.50	91	40.00	69	46.140	388	50.60	245	37.514	335	60.90	88	47.443	335	28.41	237
25.7	42.41	85	40.69	116	46.528	352	53.05	292	37.849	319	60.02	74	47.778	309	30.78	278
Dez. 5.6	43.26	76	41.85	160	46.880	303	55.97	329	38.168	294	59.28	56	48.087	274	33.56	311
15.6	44.02	65	43.45	199	47.183	243	59.26	356	38.462	259	58.72	36	48.361	230	36.67	333
25.6	44.67	51	45.44	231	47.426	177	62.82	370	38.721	216	58.36	15	48.591	177	40.00	344
35.5	45.18		47.75		47.603		66.52		38.937		58.21		48.768		43.44	
Mittl. Ort	31.67		70.95		43.209		52.13		32.793		80.94		44.180		27.65	
sec δ, tg δ	3.659		+3.519		1.653		−1.316		1.133		+0.531		1.301		−0.833	

Mittlere Zeit Greenw.	307) 27 Lyncis				308) ι Navis				309) γ Argus				310) Br. 1147			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	8h 2m		+51° 44′		8h 4m		−24° 4′		8h 7m		−47° 5′		8h 9m		+75° 59′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.6	25.736	249	16.04	134	7.934	152	16.72	293	4.733	153	51.97	367	31.43	52	67.83	242
10.5	25.985	175	17.38	156	8.086	100	19.65	285	4.886	87	55.64	364	31.95	35	70.25	266
20.5	26.160	96	18.94	172	8.186	47	22.50	268	4.973	18	59.28	352	32.30	16	72.91	278
30.5	26.256	16	20.66	180	8.233	5	25.18	245	4.991	47	62.80	331	32.46	3	75.69	281
Feb. 9.5	26.272	59	22.46	180	8.228	56	27.63	218	4.944	109	66.11	303	32.43	22	78.50	271
19.4	26.213	130	24.26	170	8.172	99	29.81	186	4.835	164	69.14	267	32.21	38	81.21	251
März 1.4	26.083	188	25.96	154	8.073	137	31.67	152	4.671	210	71.81	228	31.83	54	83.72	220
11.4	25.895	234	27.50	130	7.936	165	33.19	117	4.461	246	74.09	184	31.29	65	85.92	180
21.3	25.661	266	28.80	101	7.771	184	34.36	81	4.215	270	75.93	137	30.64	74	87.72	132
31.3	25.395	283	29.81	68	7.587	193	35.17	43	3.945	283	77.30	89	29.90	80	89.04	83
Apr. 10.3	25.112	283	30.49	31	7.394	192	35.60	6	3.662	286	78.19	39	29.10	81	89.87	28
20.3	24.829	271	30.80	4	7.202	184	35.66	29	3.376	279	78.58	9	28.29	79	90.15	26
30.2	24.558	245	30.76	39	7.018	168	35.37	63	3.097	262	78.49	58	27.50	74	89.89	79
Mai 10.2	24.313	210	30.37	73	6.850	147	34.74	96	2.835	238	77.91	104	26.76	67	89.10	128
20.2	24.103	167	29.64	104	6.703	119	33.78	126	2.597	207	76.87	147	26.09	57	87.82	172
30.2	23.936	117	28.60	130	6.584	90	32.52	154	2.390	171	75.40	186	25.52	45	86.10	212
Juni 9.1	23.819	64	27.30	153	6.494	57	30.98	176	2.219	130	73.54	221	25.07	33	83.98	244
19.1	23.755	10	25.77	171	6.437	22	29.22	194	2.089	86	71.33	249	24.74	18	81.54	270
29.1	23.745	44	24.06	185	6.415	11	27.28	207	2.003	39	68.84	271	24.56	4	78.84	288
Juli 9.0	23.789	98	22.21	196	6.426	47	25.21	214	1.964	8	66.13	284	24.52	10	75.96	302
19.0	23.887	150	20.25	201	6.473	81	23.07	213	1.972	57	63.29	290	24.62	24	72.94	306
29.0	24.037	198	18.24	204	6.554	114	20.94	206	2.029	105	60.39	284	24.86	37	69.88	305
Aug. 8.0	24.235	243	16.20	202	6.668	147	18.88	190	2.134	152	57.55	270	25.23	51	66.83	298
17.9	24.478	286	14.18	198	6.815	177	16.98	167	2.286	199	54.85	246	25.74	62	63.85	283
27.9	24.764	325	12.20	190	6.992	206	15.31	137	2.485	243	52.39	213	26.36	74	61.02	265
Sept. 6.9	25.089	360	10.30	180	7.198	234	13.94	100	2.728	282	50.26	171	27.10	83	58.37	241
16.9	25.449	391	8.50	166	7.432	259	12.94	58	3.010	319	48.55	119	27.93	92	55.96	211
26.8	25.840	419	6.84	148	7.691	280	12.36	11	3.329	349	47.36	63	28.85	99	53.85	177
Okt. 6.8	26.259	441	5.36	129	7.971	297	12.25	38	3.678	371	46.73	3	29.84	104	52.08	138
16.8	26.700	458	4.07	104	8.268	310	12.63	89	4.049	386	46.70	60	30.88	108	50.70	96
26.7	27.158	466	3.03	77	8.578	316	13.52	136	4.435	391	47.30	122	31.96	109	49.74	50
Nov. 5.7	27.624	465	2.26	47	8.894	314	14.88	181	4.826	385	48.52	181	33.05	108	49.24	2
15.7	28.089	454	1.79	15	9.208	304	16.69	219	5.211	367	50.33	235	34.13	105	49.22	47
25.7	28.543	431	1.64	20	9.512	286	18.88	251	5.578	339	52.68	280	35.18	99	49.69	97
Dez. 5.6	28.974	396	1.84	55	9.798	259	21.39	274	5.917	299	55.48	318	36.17	89	50.66	144
15.6	29.370	347	2.39	87	10.057	222	24.13	289	6.216	248	58.66	344	37.06	77	52.10	187
25.6	29.717	287	3.26	119	10.279	180	27.02	292	6.464	190	62.10	361	37.83	62	53.97	224
35.6	30.004		4.45		10.459		29.94		6.654		65.71		38.45		56.21	
Mittl. Ort	22.318		29.13		5.642		12.30		2.143		50.50		24.19		82.49	
sec δ, tg δ	1.615		+1.268		1.095		−0.447		1.469		−1.076		4.135		+4.013	

Mittlere Zeit Greenw.	311) 20 Navis AR.		311) 20 Navis Dekl.		312) β Cancri AR.		312) β Cancri Dekl.		314) 31 Lyncis AR.		314) 31 Lyncis Dekl.		315) ε Argus AR.		315) ε Argus Dekl.	
1919	8h 9m		−15° 32′		8h 12m		+9° 25′		8h 17m		+43° 26′		8h 20m		−59° 14′	
Jan. 0.6	38.862	161	41.88	256	9.780	180	60.66	122	20.732	240	42.82	79	54.237	187	53.69	382
10.5	39.023	112	44.44	246	9.960	131	59.44	104	20.972	178	43.61	104	54.424	100	57.51	386
20.5	39.135	61	46.90	228	10.091	81	58.40	85	21.150	110	44.65	124	54.524	13	61.37	380
30.5	39.196	9	49.18	206	10.172	28	57.55	64	21.260	40	45.89	137	54.537	71	65.17	363
Feb. 9.5	39.205	39	51.24	180	10.200	21	56.91	46	21.300	26	47.26	144	54.466	151	68.80	339
19.4	39.166	82	53.04	152	10.179	66	56.45	27	21.274	87	48.70	142	54.315	221	72.19	307
März 1.4	39.084	119	54.56	122	10.113	103	56.18	13	21.187	141	50.12	135	54.094	282	75.26	267
11.4	38.965	147	55.78	91	10.010	133	56.05	0	21.046	183	51.47	120	53.812	331	77.93	225
21.3	38.818	166	56.69	60	9.877	153	56.05	11	20.863	212	52.67	99	53.481	367	80.18	176
31.3	38.652	175	57.29	30	9.724	163	56.16	19	20.651	229	53.66	74	53.114	388	81.94	127
Apr. 10.3	38.477	176	57.59	0	9.561	163	56.35	26	20.422	233	54.40	47	52.726	398	83.21	75
20.3	38.301	168	57.59	29	9.398	155	56.61	32	20.189	224	54.87	19	52.328	395	83.96	22
30.2	38.133	153	57.30	57	9.243	139	56.93	36	19.965	206	55.06	11	51.933	381	84.18	30
Mai 10.2	37.980	132	56.73	83	9.104	118	57.29	40	19.759	178	54.95	38	51.552	355	83.88	81
20.2	37.848	107	55.90	107	8.986	92	57.69	42	19.581	143	54.57	65	51.197	322	83.07	129
30.2	37.741	78	54.83	128	8.894	62	58.11	45	19.438	103	53.92	89	50.875	280	81.78	175
Juni 9.1	37.663	47	53.55	146	8.832	31	58.56	47	19.335	61	53.03	109	50.595	230	80.03	215
19.1	37.616	15	52.09	161	8.801	1	59.03	47	19.274	16	51.94	127	50.365	176	77.88	250
29.1	37.601	17	50.48	170	8.802	34	59.50	46	19.258	30	50.67	142	50.189	116	75.38	276
Juli 9.0	37.618	50	48.78	175	8.836	65	59.96	43	19.288	73	49.25	153	50.073	52	72.62	296
19.0	37.668	82	47.03	173	8.901	95	60.39	37	19.361	115	47.72	161	50.021	13	69.66	307
29.0	37.750	112	45.30	165	8.996	124	60.76	29	19.476	157	46.11	168	50.034	80	66.59	307
Aug. 8.0	37.862	142	43.65	151	9.120	151	61.05	18	19.633	195	44.43	172	50.114	148	63.52	297
17.9	38.004	171	42.14	130	9.271	179	61.23	4	19.828	232	42.71	172	50.262	214	60.55	277
27.9	38.175	198	40.84	103	9.450	203	61.27	13	20.060	266	40.99	172	50.476	277	57.78	247
Sept. 6.9	38.373	224	39.81	71	9.653	226	61.14	32	20.326	297	39.27	168	50.753	336	55.31	206
16.9	38.597	248	39.10	32	9.879	249	60.82	52	20.623	327	37.59	161	51.089	389	53.25	156
26.8	38.845	268	38.78	8	10.128	269	60.30	74	20.950	353	35.98	154	51.478	432	51.69	100
Okt. 6.8	39.113	286	38.86	52	10.397	286	59.56	94	21.303	376	34.44	141	51.910	467	50.69	38
16.8	39.399	298	39.38	94	10.683	299	58.62	114	21.679	393	33.03	126	52.377	488	50.31	28
26.7	39.697	306	40.32	135	10.982	308	57.48	131	22.072	405	31.77	107	52.865	496	50.59	94
Nov. 5.7	40.003	307	41.67	173	11.290	311	56.17	143	22.477	409	30.70	84	53.361	489	51.53	157
15.7	40.310	300	43.40	205	11.601	307	54.74	152	22.886	403	29.86	58	53.850	466	53.10	217
25.7	40.610	284	45.45	230	11.908	294	53.22	154	23.289	387	29.28	29	54.316	428	55.27	271
Dez. 5.6	40.894	260	47.75	248	12.202	272	51.68	151	23.676	360	28.99	2	54.744	376	57.98	314
15.6	41.154	227	50.23	257	12.474	242	50.17	142	24.036	322	29.01	33	55.120	311	61.12	348
25.6	41.381	187	52.80	257	12.716	204	48.75	130	24.358	272	29.34	64	55.431	235	64.60	371
35.6	41.568		55.37		12.920		47.45		24.630		29.98		55.666		68.31	
Mittl. Ort	36.607		36.34		7.447		69.84		17.777		56.41		51.219		54.19	
sec δ, tg δ	1.038		−0.278		1.014		+0.166		1.377		+0.947		1.956		−1.681	

Mittlere Zeit Greenw.	316) Br. 1197 AR.		316) Br. 1197 Dekl.		318) ϑ Chamael. AR.		318) ϑ Chamael. Dekl.		317) o Ursae maj. AR.		317) o Ursae maj. Dekl.		320) Gr. 1450 AR.		320) Gr. 1450 Dekl.	
1919	8h 21m		−3° 38′		8h 22m		−77° 13′		8h 23m		+60° 58′		8h 27m		+38° 17′	
Jan. 0.6	39.083 s	178	36.23 ″	198	71.07 s	28	22.99 ″	377	36.81 s	34	69.54 ″	167	42.087 s	238	29.08 ″	42
10.5	39.261	132	38.21	184	71.35	9	26.76	387	37.15	23	71.21	195	42.325	180	29.50	70
20.5	39.393	82	40.05	166	71.44	10	30.63	386	37.38	15	73.16	215	42.505	118	30.20	91
30.5	39.475	30	41.71	144	71.34	28	34.49	375	37.53	4	75.31	226	42.623	53	31.11	108
Feb. 9.5	39.505	18	43.15	121	71.06	44	38.24	354	37.57	5	77.57	225	42.676	9	32.19	119
19.4	39.487	62	44.36	97	70.62	61	41.78	326	37.52	14	79.82	216	42.667	68	33.38	122
März 1.4	39.425	99	45.33	74	70.01	73	45.04	291	37.38	22	81.98	197	42.599	118	34.60	119
11.4	39.326	129	46.07	50	69.28	84	47.95	249	37.16	29	83.95	170	42.481	158	35.79	110
21.4	39.197	149	46.57	29	68.44	92	50.44	204	36.87	33	85.65	135	42.323	188	36.89	96
31.3	39.048	160	46.86	8	67.52	98	52.48	156	36.54	37	87.00	96	42.135	205	37.85	76
Apr. 10.3	38.888	162	46.94	11	66.54	100	54.04	103	36.17	37	87.96	53	41.930	210	38.61	54
20.3	38.726	156	46.83	30	65.54	101	55.07	50	35.80	36	88.49	9	41.720	205	39.15	31
30.2	38.570	143	46.53	46	64.53	100	55.57	3	35.44	35	88.58	34	41.515	188	39.46	5
Mai 10.2	38.427	123	46.07	62	63.53	95	55.54	56	35.09	31	88.24	77	41.327	165	39.51	18
20.2	38.304	99	45.45	77	62.58	88	54.98	108	34.78	26	87.47	116	41.162	134	39.33	42
30.2	38.205	72	44.68	89	61.70	80	53.90	156	34.52	20	86.31	150	41.028	99	38.91	63
Juni 9.1	38.133	44	43.79	99	60.90	69	52.34	200	34.32	13	84.81	181	40.929	61	38.28	82
19.1	38.089	13	42.80	107	60.21	57	50.34	238	34.19	7	83.00	206	40.868	22	37.46	98
29.1	38.076	18	41.73	112	59.64	43	47.96	270	34.12	1	80.94	226	40.846	19	36.48	113
Juli 9.1	38.094	49	40.61	112	59.21	27	45.26	294	34.11	6	78.68	241	40.865	59	35.35	126
19.0	38.143	78	39.49	109	58.94	12	42.32	309	34.17	13	76.27	251	40.924	98	34.09	135
29.0	38.221	107	38.40	101	58.82	5	39.23	314	34.30	19	73.76	255	41.022	135	32.74	143
Aug. 8.0	38.328	135	37.39	88	58.87	22	36.09	309	34.49	25	71.21	254	41.157	171	31.31	150
17.9	38.463	162	36.51	71	59.09	39	33.00	293	34.74	31	68.67	250	41.328	205	29.81	154
27.9	38.625	189	35.80	49	59.48	54	30.07	266	35.05	37	66.17	241	41.533	237	28.27	157
Sept. 6.9	38.814	214	35.31	22	60.02	69	27.41	228	35.42	42	63.76	226	41.770	267	26.70	158
16.9	39.028	237	35.09	7	60.71	81	25.13	182	35.84	46	61.50	209	42.037	296	25.12	157
26.8	39.265	258	35.16	40	61.52	92	23.31	128	36.30	50	59.41	186	42.333	322	23.55	154
Okt. 6.8	39.523	277	35.56	72	62.44	99	22.03	66	36.80	53	57.55	160	42.655	345	22.01	146
16.8	39.800	292	36.28	105	63.43	104	21.37	1	37.33	56	55.95	128	43.000	364	20.55	137
26.8	40.092	302	37.33	135	64.47	104	21.36	65	37.89	57	54.67	94	43.364	377	19.18	124
Nov. 5.7	40.394	306	38.68	161	65.51	102	22.01	132	38.46	58	53.73	55	43.741	384	17.94	105
15.7	40.700	302	40.29	183	66.53	95	23.33	193	39.04	57	53.18	14	44.125	380	16.89	84
25.7	41.002	290	42.12	198	67.48	85	25.26	249	39.61	55	53.04	28	44.505	369	16.05	59
Dez. 5.6	41.292	269	44.10	207	68.33	72	27.75	297	40.16	50	53.32	71	44.874	345	15.46	31
15.6	41.561	240	46.17	208	69.05	57	30.72	336	40.66	45	54.03	112	45.219	311	15.15	2
25.6	41.801	202	48.25	202	69.62	39	34.08	363	41.11	38	55.15	149	45.530	266	15.13	28
35.6	42.003		50.27		70.01		37.71		41.49		56.64		45.796		15.41	
Mittl. Ort	36.846		28.83		65.58		25.07		32.86		84.97		39.349		42.81	
sec δ, tg δ	1.002		−0.064		4.522		−4.410		2.062		+1.803		1.274		+0.788	

Mittlere Zeit Greenw.	321) η Cancri AR.		321) η Cancri Dekl.		326) δ Cancri AR.		326) δ Cancri Dekl.	
1919	8h 28m		+20° 42′		8h 40m		+18° 26′	
	s		″		s		″	
Jan. 0.6	4.053	207	50.63	61	7.402	215	58.72	80
10.6	4.260	157	50.02	39	7.617	166	57.92	57
20.5	4.417	104	49.63	17	7.783	115	57.35	35
30.5	4.521	48	49.46	3	7.898	60	57.00	14
Feb. 9.5	4.569	4	49.49	19	7.958	8	56.86	5
19.4	4.565	53	49.68	33	7.966	41	56.91	21
März 1.4	4.512	95	50.01	41	7.925	84	57.12	32
11.4	4.417	129	50.42	47	7.841	119	57.44	41
21.4	4.288	152	50.89	48	7.722	143	57.85	44
31.3	4.136	167	51.37	46	7.579	158	58.29	45
Apr. 10.3	3.969	170	51.83	41	7.421	164	58.74	43
20.3	3.799	164	52.24	35	7.257	161	59.17	39
30.3	3.635	150	52.59	28	7.096	149	59.56	34
Mai 10.2	3.485	130	52.87	20	6.947	131	59.90	28
20.2	3.355	104	53.07	12	6.816	108	60.18	21
30.2	3.251	75	53.19	5	6.708	80	60.39	15
Juni 9.1	3.176	44	53.24	3	6.628	51	60.54	8
19.1	3.132	11	53.21	10	6.577	21	60.62	1
29.1	3.121	22	53.11	17	6.556	11	60.63	5
Juli 9.1	3.143	55	52.94	25	6.567	43	60.58	14
19.0	3.198	87	52.69	33	6.610	73	60.44	22
29.0	3.285	117	52.36	41	6.683	103	60.22	32
Aug. 8.0	3.402	146	51.95	52	6.786	132	59.90	42
18.0	3.548	175	51.43	62	6.918	160	59.48	55
27.9	3.723	202	50.81	73	7.078	188	58.93	68
Sept. 6.9	3.925	227	50.08	86	7.266	215	58.25	82
16.9	4.152	253	49.22	99	7.481	241	57.43	96
26.8	4.405	275	48.23	110	7.722	264	56.47	111
Okt. 6.8	4.680	295	47.13	121	7.986	286	55.36	124
16.8	4.975	311	45.92	129	8.272	305	54.12	134
26.8	5.286	324	44.63	134	8.577	318	52.78	142
Nov. 5.7	5.610	330	43.29	135	8.895	327	51.36	145
15.7	5.940	328	41.94	131	9.222	327	49.91	144
25.7	6.268	318	40.63	122	9.549	318	48.47	138
Dez. 5.7	6.586	298	39.41	109	9.867	302	47.09	126
15.6	6.884	269	38.32	92	10.169	274	45.83	110
25.6	7.153	231	37.40	72	10.443	238	44.73	91
35.6	7.384		36.68		10.681		43.82	
Mittl. Ort	1.654		62.03		5.076		70.24	
sec δ, tg δ	1.069		+0.378		1.054		+0.334	

Mittlere Zeit Greenw.	327) α Pyxidis AR.		327) α Pyxidis Dekl.		328) ι Cancri AR.		328) ι Cancri Dekl.	
1919	8h 40m		−32° 53′		8h 41m		+29° 2′	
	s		″		s		″	
Jan. 0.6	22.495	192	39.71	327	50.443	232	72.22	19
10.6	22.687	138	42.98	325	50.675	181	72.03	8
20.5	22.825	82	46.23	315	50.856	125	72.11	32
30.5	22.907	25	49.38	297	50.981	67	72.43	52
Feb. 9.5	22.932	29	52.35	273	51.048	9	72.95	69
19.4	22.903	79	55.08	242	51.057	44	73.64	79
März 1.4	22.824	122	57.50	208	51.013	90	74.43	84
11.4	22.702	157	59.58	171	50.923	129	75.27	85
21.4	22.545	182	61.29	131	50.794	156	76.12	79
31.3	22.363	199	62.60	91	50.638	174	76.91	70
Apr. 10.3	22.164	205	63.51	50	50.464	181	77.61	57
20.3	21.959	203	64.01	8	50.283	178	78.18	43
30.3	21.756	194	64.09	32	50.105	165	78.61	27
Mai 10.2	21.562	178	63.77	72	49.940	147	78.88	10
20.2	21.384	156	63.05	108	49.793	121	78.98	6
30.2	21.228	130	61.97	143	49.672	92	78.92	22
Juni 9.1	21.098	101	60.54	173	49.580	60	78.70	36
19.1	20.997	69	58.81	199	49.520	27	78.34	49
29.1	20.928	35	56.82	218	49.493	8	77.85	62
Juli 9.1	20.893	0	54.64	232	49.501	43	77.23	74
19.0	20.893	36	52.32	238	49.544	76	76.49	84
29.0	20.929	73	49.94	237	49.620	109	75.65	94
Aug. 8.0	21.002	109	47.57	226	49.729	141	74.71	104
18.0	21.111	146	45.31	207	49.870	172	73.67	112
27.9	21.257	183	43.24	180	50.042	202	72.55	122
Sept. 6.9	21.440	217	41.44	145	50.244	230	71.33	130
16.9	21.657	249	39.99	103	50.474	257	70.03	136
26.8	21.906	279	38.96	54	50.731	284	68.67	142
Okt. 6.8	22.185	304	38.42	1	51.015	307	67.25	145
16.8	22.489	324	38.41	53	51.322	326	65.80	145
26.8	22.813	337	38.94	107	51.648	342	64.35	141
Nov. 5.7	23.150	342	40.01	161	51.990	351	62.94	133
15.7	23.492	337	41.62	208	52.341	351	61.61	120
25.7	23.829	323	43.70	249	52.692	343	60.41	104
Dez. 5.7	24.152	298	46.19	282	53.035	324	59.37	82
15.6	24.450	264	49.01	306	53.359	296	58.55	59
25.6	24.714	219	52.07	321	53.655	258	57.96	32
35.6	24.933		55.28		53.913		57.64	
Mittl. Ort	20.206		37.44		47.975		85.51	
sec δ, tg δ	1.191		−0.647		1.144		+0.556	

Mittlere Zeit Greenw.	330) δ Argus AR.		330) δ Argus Dekl.		334) ζ Hydrae AR.		334) ζ Hydrae Dekl.		336) c Carinae AR.		336) c Carinae Dekl.		335) ι Ursae maj. AR.		335) ι Ursae maj. Dekl.	
1919	8h 42m		−54° 24′		8h 51m		+6° 14′		8h 53m		−60° 20′		8h 53m		+48° 21′	
Jan. 0.6	30.779	217	39.97	373	9.006	212	66.94	153	15.80	25	2.27	374	43.104	299	21.48	82
10.6	30.996	142	43.70	380	9.218	166	65.41	134	16.05	17	6.01	386	43.403	235	22.30	115
20.5	31.138	65	47.50	378	9.384	117	64.07	113	16.22	8	9.87	387	43.638	165	23.45	142
30.5	31.203	11	51.28	364	9.501	65	62.94	90	16.30	1	13.74	378	43.803	90	24.87	161
Feb. 9.5	31.192	84	54.92	343	9.566	15	62.04	69	16.29	9	17.52	360	43.893	17	26.48	174
19.5	31.108	150	58.35	314	9.581	31	61.35	47	16.20	17	21.12	333	43.910	54	28.22	178
März 1.4	30.958	207	61.49	278	9.550	72	60.88	28	16.03	24	24.45	300	43.856	117	30.00	173
11.4	30.751	255	64.27	237	9.478	106	60.60	11	15.79	29	27.45	261	43.739	169	31.73	159
21.4	30.496	290	66.64	193	9.372	130	60.49	4	15.50	34	30.06	217	43.570	209	33.32	140
31.3	30.206	315	68.57	144	9.242	147	60.53	16	15.16	37	32.23	169	43.361	236	34.72	114
Apr. 10.3	29.891	327	70.01	95	9.095	153	60.69	26	14.79	39	33.92	119	43.125	251	35.86	83
20.3	29.564	330	70.96	44	8.942	151	60.95	35	14.40	39	35.11	67	42.874	251	36.69	50
30.3	29.234	321	71.40	7	8.791	142	61.30	42	14.01	39	35.78	15	42.623	240	37.19	16
Mai 10.2	28.913	303	71.33	58	8.649	127	61.72	47	13.62	37	35.93	37	42.383	219	37.35	18
20.2	28.610	278	70.75	106	8.522	107	62.19	52	13.25	35	35.56	88	42.164	190	37.17	52
30.2	28.332	245	69.69	151	8.415	83	62.71	55	12.90	32	34.68	137	41.974	154	36.65	83
Juni 9.2	28.087	207	68.18	192	8.332	57	63.26	57	12.58	27	33.31	180	41.820	114	35.82	112
19.1	27.880	162	66.26	228	8.275	29	63.83	58	12.31	23	31.51	220	41.706	70	34.70	137
29.1	27.718	113	63.98	257	8.246	1	64.41	57	12.08	17	29.31	253	41.636	25	33.33	159
Juli 9.1	27.605	61	61.41	279	8.245	28	64.98	54	11.91	11	26.78	279	41.611	21	31.74	178
19.0	27.544	7	58.62	293	8.273	56	65.52	47	11.80	4	23.99	297	41.632	66	29.96	192
29.0	27.537	51	55.69	297	8.329	85	65.99	39	11.76	2	21.02	303	41.698	111	28.04	204
Aug. 8.0	27.588	109	52.72	290	8.414	113	66.38	27	11.78	9	17.99	302	41.809	154	26.00	212
18.0	27.697	167	49.82	274	8.527	140	66.65	11	11.87	16	14.97	289	41.963	197	23.88	216
27.9	27.864	223	47.08	248	8.667	168	66.76	6	12.03	24	12.08	265	42.160	237	21.72	218
Sept. 6.9	28.087	278	44.60	211	8.835	194	66.70	27	12.27	30	9.43	231	42.397	277	19.54	215
16.9	28.365	328	42.49	165	9.029	221	66.43	50	12.57	36	7.12	188	42.674	313	17.39	210
26.9	28.693	371	40.84	112	9.250	245	65.93	75	12.93	41	5.24	136	42.987	348	15.29	200
Okt. 6.8	29.064	408	39.72	53	9.495	269	65.18	98	13.34	46	3.88	76	43.335	380	13.29	187
16.8	29.472	434	39.19	11	9.764	288	64.20	122	13.80	49	3.12	13	43.715	406	11.42	168
26.8	29.906	448	39.30	76	10.052	303	62.98	142	14.29	52	2.99	52	44.121	427	9.74	146
Nov. 5.7	30.354	451	40.06	139	10.355	313	61.56	159	14.81	52	3.51	119	44.548	439	8.28	118
15.7	30.805	439	41.45	199	10.668	314	59.97	170	15.33	50	4.70	181	44.987	442	7.10	86
25.7	31.244	412	43.44	253	10.982	308	58.27	177	15.83	48	6.51	238	45.429	433	6.24	52
Dez. 5.7	31.656	373	45.97	299	11.290	292	56.50	177	16.31	43	8.89	288	45.862	411	5.72	15
15.6	32.029	321	48.96	335	11.582	267	54.73	171	16.74	37	11.77	329	46.273	378	5.57	24
25.6	32.350	257	52.31	360	11.849	234	53.02	160	17.11	30	15.06	358	46.651	330	5.81	62
35.6	32.607		55.91		12.083		51.42		17.41		18.64		46.981		6.43	
Mittl. Ort	28.030		41.01		6.819		76.55		12.80		4.59		40.192		38.10	
sec δ, tg δ	1.718		−1.397		1.006		+0.109		2.020		−1.756		1.505		+1.125	

Mittlere Zeit Greenw.	337) α Cancri AR.		337) α Cancri Dekl.		339) 10 Ursae maj. AR.		339) 10 Ursae maj. Dekl.		341) κ Ursae maj. AR.		341) κ Ursae maj. Dekl.		343) α Volantis AR.		343) α Volantis Dekl.	
1919	8h 54m		+12° 9′		8h 55m		+42° 5′		8h 58m		+47° 28′		9h 1m		−66° 4′	
Jan. 0.6	5.776	220	68.61	121	26.003	277	59.63	46	9.039	301	23.21	75	13.67	30	17.99	372
10.6	5.996	174	67.40	100	26.280	219	60.09	79	9.340	240	23.96	107	13.97	20	21.71	388
20.5	6.170	124	66.40	77	26.499	156	60.88	106	9.580	170	25.03	136	14.17	9	25.59	393
30.5	6.294	72	65.63	55	26.655	88	61.94	127	9.750	97	26.39	157	14.26	— 1	29.52	388
Feb. 9.5	6.366	20	65.08	33	26.743	22	63.21	142	9.847	24	27.96	171	14.25	11	33.40	372
19.5	6.386	— 28	64.75	14	26.765	— 42	64.63	148	9.871	— 46	29.67	175	14.14	20	37.12	348
März 1.4	6.358	69	64.61	— 3	26.723	98	66.11	148	9.825	107	31.42	172	13.94	29	40.60	318
11.4	6.289	105	64.64	16	26.625	146	67.59	140	9.718	160	33.14	160	13.65	35	43.78	280
21.4	6.184	130	64.80	26	26.479	181	68.99	125	9.558	200	34.74	142	13.30	41	46.58	238
31.3	6.054	147	65.06	34	26.298	206	70.24	105	9.358	227	36.16	117	12.89	45	48.96	190
Apr. 10.3	5.907	154	65.40	37	26.092	218	71.29	79	9.131	243	37.33	88	12.44	48	50.86	141
20.3	5.753	153	65.77	40	25.874	218	72.08	53	8.888	244	38.21	55	11.96	49	52.27	89
30.3	5.600	145	66.17	42	25.656	209	72.61	24	8.644	234	38.76	22	11.47	50	53.16	35
Mai 10.2	5.455	129	66.59	41	25.447	189	72.85	— 5	8.410	215	38.98	— 12	10.97	47	53.51	— 18
20.2	5.326	109	67.00	40	25.258	163	72.80	33	8.195	187	38.86	46	10.50	46	53.33	71
30.2	5.217	85	67.40	38	25.095	132	72.47	61	8.008	153	38.40	76	10.04	41	52.62	121
Juni 9.2	5.132	58	67.78	34	24.963	95	71.86	85	7.855	114	37.64	105	9.63	37	51.41	168
19.1	5.074	30	68.12	32	24.868	57	71.01	108	7.741	71	36.59	130	9.26	31	49.73	210
29.1	5.044	2	68.44	27	24.811	17	69.93	128	7.670	28	35.29	153	8.95	24	47.63	246
Juli 9.1	5.042	— 28	68.71	20	24.794	— 23	68.65	145	7.642	— 16	33.76	172	8.71	18	45.17	275
19.0	5.070	57	68.91	13	24.817	63	67.20	160	7.658	61	32.04	187	8.53	9	42.42	296
29.0	5.127	85	69.04	3	24.880	102	65.60	171	7.719	104	30.17	200	8.44	1	39.46	307
Aug. 8.0	5.212	113	69.07	— 8	24.982	141	63.89	180	7.823	147	28.17	208	8.43	— 8	36.39	307
18.0	5.325	142	68.99	23	25.123	178	62.09	188	7.970	189	26.09	214	8.51	16	33.32	299
27.9	5.467	170	68.76	39	25.301	215	60.21	191	8.159	229	23.95	217	8.67	25	30.33	278
Sept. 6.9	5.637	196	68.37	57	25.516	249	58.30	194	8.388	268	21.78	215	8.92	34	27.55	246
16.9	5.833	223	67.80	76	25.765	283	56.36	192	8.656	305	19.63	211	9.26	41	25.09	205
26.9	6.056	248	67.04	95	26.048	315	54.44	187	8.961	340	17.52	202	9.67	48	23.04	154
Okt. 6.8	6.304	272	66.09	115	26.363	344	52.57	179	9.301	371	15.50	189	10.15	55	21.50	97
16.8	6.576	292	64.94	132	26.707	369	50.78	167	9.672	399	13.61	172	10.70	58	20.53	33
26.8	6.868	308	63.62	147	27.076	388	49.11	151	10.071	420	11.89	151	11.28	61	20.20	— 33
Nov. 5.7	7.176	318	62.15	157	27.464	400	47.60	129	10.491	433	10.38	125	11.89	61	20.53	100
15.7	7.494	321	60.58	162	27.864	403	46.31	103	10.924	437	9.13	93	12.50	61	21.53	165
25.7	7.815	315	58.96	163	28.267	397	45.28	74	11.361	430	8.20	59	13.11	56	23.18	223
Dez. 5.7	8.130	300	57.33	157	28.664	378	44.54	41	11.791	410	7.61	22	13.67	52	25.41	277
15.6	8.430	276	55.76	146	29.042	347	44.13	7	12.201	377	7.39	— 16	14.19	44	28.18	321
25.6	8.706	241	54.30	130	29.389	305	44.06	— 28	12.578	331	7.55	54	14.63	36	31.39	354
35.6	8.947		53.00		29.694		44.34		12.909		8.09		14.99		34.93	
Mittl. Ort	3.562		79.44		23.316		75.56		6.194		40.01		10.29		21.40	
sec δ, tg δ	1.023		+0.216		1.348		+0.904		1.480		+1.091		2.466		−2.254	

Mittlere Zeit Greenw.	344) σ² Ursae maj. AR.		Dekl.		345) λ Argus AR.		Dekl.		347) θ Hydrae AR.		Dekl.		348) β Argus AR.		Dekl.	
1919	$9^h 3^m$		+67° 27′		$9^h 5^m$		−43° 6′		$9^h 10^m$		+2° 38′		$9^h 12^m$		−69° 22′	
Jan. 0.6	21.43	48	33.69	165	3.262	230	17.69	349	11.192	225	74.93	178	22.70	36	55.87	365
10.6	21.91	37	35.34	203	3.492	172	21.18	355	11.417	182	73.15	160	23.06	24	59.52	384
20.6	22.28	26	37.37	231	3.664	109	24.73	353	11.599	134	71.55	140	23.30	13	63.36	393
30.5	22.54	13	39.68	251	3.773	46	28.26	341	11.733	83	70.15	118	23.43	0	67.29	392
Feb. 9.5	22.67	2	42.19	259	3.819	15	31.67	321	11.816	33	68.97	94	23.43	10	71.21	379
19.5	22.69	11	44.78	255	3.804	73	34.88	295	11.849	14	68.03	71	23.33	21	75.00	360
März 1.4	22.58	21	47.33	242	3.731	122	37.83	261	11.835	56	67.32	49	23.12	31	78.60	331
11.4	22.37	31	49.75	218	3.609	164	40.44	224	11.779	91	66.83	29	22.81	40	81.91	296
21.4	22.06	38	51.93	185	3.445	197	42.68	184	11.688	117	66.54	11	22.41	45	84.87	255
31.4	21.68	43	53.78	146	3.248	219	44.52	140	11.571	136	66.43	5	21.96	51	87.42	211
Apr. 10.3	21.25	47	55.24	100	3.029	233	45.92	95	11.435	145	66.48	19	21.45	55	89.53	161
20.3	20.78	48	56.24	53	2.796	238	46.87	50	11.290	146	66.67	30	20.90	57	91.14	109
30.3	20.30	47	56.77	3	2.558	233	47.37	3	11.144	141	66.97	41	20.33	57	92.23	56
Mai 10.2	19.83	44	56.80	46	2.325	221	47.40	42	11.003	128	67.38	49	19.76	56	92.79	2
20.2	19.39	40	56.34	92	2.104	204	46.98	87	10.875	112	67.87	57	19.20	54	92.81	52
30.2	18.99	34	55.42	136	1.900	180	46.11	127	10.763	91	68.44	63	18.66	50	92.29	103
Juni 9.2	18.65	27	54.06	175	1.720	153	44.84	165	10.672	68	69.07	67	18.16	45	91.26	152
19.1	18.38	21	52.31	209	1.567	121	43.19	198	10.604	43	69.74	70	17.71	39	89.74	196
29.1	18.17	12	50.22	239	1.446	86	41.21	227	10.561	17	70.44	70	17.32	31	87.78	235
Juli 9.1	18.05	4	47.83	262	1.360	47	38.94	247	10.544	11	71.14	68	17.01	25	85.43	268
19.1	18.01	4	45.21	279	1.313	7	36.47	260	10.555	37	71.82	63	16.76	16	82.75	291
29.0	18.05	12	42.42	292	1.306	36	33.87	265	10.592	66	72.45	55	16.60	5	79.84	306
Aug. 8.0	18.17	20	39.50	297	1.342	79	31.22	261	10.658	93	73.00	43	16.55	5	76.78	310
18.0	18.37	28	36.53	297	1.421	124	28.61	248	10.751	121	73.43	28	16.60	15	73.68	305
27.9	18.65	36	33.56	292	1.545	168	26.13	224	10.872	149	73.71	9	16.75	25	70.63	287
Sept. 6.9	19.01	43	30.64	281	1.713	212	23.89	191	11.021	177	73.80	13	17.00	35	67.76	259
16.9	19.44	49	27.83	263	1.925	254	21.98	150	11.198	205	73.67	39	17.35	45	65.17	221
26.9	19.93	55	25.20	242	2.179	292	20.48	102	11.403	233	73.28	65	17.80	53	62.96	172
Okt. 6.8	20.48	61	22.78	215	2.471	327	19.46	47	11.636	258	72.63	92	18.33	60	61.24	116
16.8	21.09	66	20.63	181	2.798	353	18.99	11	11.894	280	71.71	119	18.93	65	60.08	54
26.8	21.75	68	18.82	143	3.151	374	19.10	71	12.174	298	70.52	143	19.58	69	59.54	12
Nov. 5.8	22.43	71	17.39	100	3.525	383	19.81	130	12.472	311	69.09	164	20.27	70	59.66	79
15.7	23.14	71	16.39	53	3.908	381	21.11	186	12.783	316	67.45	180	20.97	69	60.45	145
25.7	23.85	69	15.86	5	4.289	368	22.97	236	13.099	312	65.65	191	21.66	65	61.90	205
Dez. 5.7	24.54	66	15.81	46	4.657	344	25.33	279	13.411	300	63.74	194	22.31	60	63.95	262
15.6	25.20	60	16.27	95	5.001	307	28.12	313	13.711	277	61.80	192	22.91	51	66.57	308
25.6	25.80	53	17.22	142	5.308	260	31.25	336	13.988	246	59.88	183	23.42	42	69.65	344
35.6	26.33		18.64		5.568		34.61		14.234		58.05		23.84		73.09	
Mittl. Ort	17.19		52.71		0.888		18.01		9.090		84.09		19.02		60.24	
sec δ, tg δ	2.609		+2.410		1.370		−0.936		1.001		+0.046		2.840		−2.658	

Mittlere Zeit Greenw.	350) 83 Cancri				352) 40 Lyncis				353) ϰ Argus				354) α Hydrae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	9h 14m		+18° 2′		9h 16m		+34° 43′		9h 19m		−54° 39′		9h 23m		−8° 18′	
Jan. 0.6	29.980	243	45.46	96	9.910	276	53.11	6	38.880	278	48.65	360	38.494	231	31.41	231
10.6	30.223	198	44.50	72	10.186	226	53.05	26	39.158	208	52.25	374	38.725	189	33.72	220
20.6	30.421	149	43.78	47	10.412	169	53.31	56	39.366	134	55.99	380	38.914	140	35.92	204
30.5	30.570	95	43.31	22	10.581	108	53.87	81	39.500	57	59.79	374	39.054	91	37.96	185
Feb. 9.5	30.665	42	43.09	1	10.689	48	54.68	102	39.557	18	63.53	359	39.145	41	39.81	161
19.5	30.707	8	43.10	20	10.737	11	55.70	115	39.539	87	67.12	337	39.186	6	41.42	135
März 1.5	30.699	53	43.30	36	10.726	64	56.85	123	39.452	149	70.49	307	39.180	48	42.77	110
11.4	30.646	91	43.66	46	10.662	108	58.08	122	39.303	202	73.56	272	39.132	84	43.87	84
21.4	30.555	121	44.12	53	10.554	144	59.30	116	39.101	245	76.28	230	39.048	111	44.71	59
31.4	30.434	141	44.65	56	10.410	169	60.46	105	38.856	278	78.58	187	38.937	131	45.30	34
Apr. 10.3	30.293	152	45.21	56	10.241	183	61.51	88	38.578	298	80.45	138	38.806	142	45.64	12
20.3	30.141	154	45.77	52	10.058	188	62.39	69	38.280	310	81.83	90	38.664	146	45.76	11
30.3	29.987	149	46.29	47	9.870	183	63.08	47	37.970	312	82.73	39	38.518	143	45.65	30
Mai 10.3	29.838	137	46.76	40	9.687	167	63.55	23	37.658	304	83.12	11	38.375	133	45.35	50
20.2	29.701	120	47.16	33	9.520	149	63.78	0	37.354	288	83.01	61	38.242	120	44.85	68
30.2	29.581	97	47.49	24	9.371	123	63.78	23	37.066	264	82.40	109	38.122	101	44.17	82
Juni 9.2	29.484	73	47.73	16	9.248	95	63.55	45	36.802	235	81.31	153	38.021	81	43.35	96
19.2	29.411	47	47.89	7	9.153	63	63.10	65	36.567	198	79.78	194	37.940	57	42.39	107
29.1	29.364	18	47.96	3	9.090	30	62.45	85	36.369	157	77.84	228	37.883	34	41.32	115
Juli 9.1	29.346	10	47.93	13	9.060	4	61.60	102	36.212	110	75.56	256	37.849	7	40.17	119
19.1	29.356	39	47.80	24	9.064	38	60.58	118	36.102	60	73.00	277	37.842	19	38.98	119
29.0	29.395	67	47.56	35	9.102	72	59.40	133	36.042	5	70.23	288	37.861	47	37.79	113
Aug. 8.0	29.462	97	47.21	48	9.174	106	58.07	145	36.037	52	67.35	289	37.908	75	36.66	104
18.0	29.559	125	46.73	63	9.280	140	56.62	157	36.089	111	64.46	282	37.983	104	35.62	89
28.0	29.684	155	46.10	77	9.420	173	55.05	166	36.200	170	61.64	262	38.087	134	34.73	68
Sept. 6.9	29.839	184	45.33	93	9.593	207	53.39	173	36.370	230	59.02	234	38.221	164	34.05	44
16.9	30.023	212	44.40	109	9.800	240	51.66	180	36.600	286	56.68	194	38.385	193	33.61	13
26.9	30.235	241	43.31	124	10.040	271	49.86	183	36.886	339	54.74	147	38.578	223	33.48	19
Okt. 6.9	30.476	266	42.07	139	10.311	301	48.03	183	37.225	384	53.27	91	38.801	251	33.67	55
16.8	30.742	291	40.68	152	10.612	327	46.20	178	37.609	421	52.36	31	39.052	275	34.22	91
26.8	31.033	311	39.16	160	10.939	349	44.42	171	38.030	448	52.05	33	39.327	296	35.13	125
Nov. 5.8	31.344	324	37.56	164	11.288	366	42.71	157	38.478	462	52.38	96	39.623	310	36.38	158
15.7	31.668	331	35.92	163	11.654	373	41.14	138	38.940	461	53.34	159	39.933	316	37.96	185
25.7	31.999	329	34.29	158	12.027	371	39.76	115	39.401	445	54.93	217	40.249	314	39.81	208
Dez. 5.7	32.328	318	32.71	146	12.398	358	38.61	88	39.846	416	57.10	267	40.563	304	41.89	223
15.7	32.646	295	31.25	130	12.756	335	37.73	58	40.262	372	59.77	310	40.867	281	44.12	231
25.6	32.941	264	29.95	110	13.091	299	37.15	25	40.634	316	62.87	342	41.148	251	46.43	231
35.6	33.205		28.85		13.390		36.90		40.950		66.29		41.399		48.74	
Mittl. Ort	27.805		58.06		7.526		69.01		36.238		51.51		36.456		24.71	
sec δ, tg δ	1.052		+0.326		1.217		+0.693		1.729		−1.410		1.011		−0.146	

Mittlere Zeit Greenw.	355) *h* Ursae maj. AR.	Diff.	355) Dekl.	Diff.	357) *d* Ursae maj. AR.	Diff.	357) Dekl.	Diff.
1919	9h 25m		+63° 24′		9h 27m		+70° 10′	
Jan. 0.6	13.11	45	40.95	130	25.06	58	53.95	155
10.6	13.56	37	42.25	170	25.64	46	55.50	197
20.6	13.93	27	43.95	204	26.10	35	57.47	232
30.5	14.20	18	45.99	229	26.45	21	59.79	256
Feb. 9.5	14.38	7	48.28	245	26.66	7	62.35	269
19.5	14.45	4	50.73	249	26.73	7	65.04	272
März 1.5	14.41	14	53.22	242	26.66	18	67.76	262
11.4	14.27	22	55.64	225	26.48	30	70.38	242
21.4	14.05	29	57.89	200	26.18	40	72.80	213
31.4	13.76	34	59.89	166	25.78	46	74.93	174
Apr. 10.3	13.42	37	61.55	126	25.32	52	76.67	130
20.3	13.05	40	62.81	82	24.80	54	77.97	81
30.3	12.65	38	63.63	35	24.26	54	78.78	31
Mai 10.3	12.27	38	63.98	11	23.72	52	79.09	20
20.2	11.89	35	63.87	58	23.20	49	78.89	71
30.2	11.54	30	63.29	101	22.71	44	78.18	118
Juni 9.2	11.24	26	62.28	142	22.27	37	77.00	161
19.2	10.98	19	60.86	178	21.90	29	75.39	202
29.1	10.79	14	59.08	211	21.61	22	73.37	234
Juli 9.1	10.65	7	56.97	238	21.39	13	71.03	264
19.1	10.58	0	54.59	259	21.26	3	68.39	285
29.0	10.58	6	52.00	276	21.23	6	65.54	302
Aug. 8.0	10.64	14	49.24	287	21.29	14	62.52	313
18.0	10.78	19	46.37	293	21.43	24	59.39	316
28.0	10.97	27	43.44	293	21.67	33	56.23	314
Sept. 6.9	11.24	33	40.51	288	22.00	41	53.09	306
16.9	11.57	39	37.63	276	22.41	49	50.03	292
26.9	11.96	44	34.87	261	22.90	56	47.11	272
Okt. 6.9	12.40	50	32.26	238	23.46	64	44.39	245
16.8	12.90	54	29.88	209	24.10	69	41.94	213
26.8	13.44	58	27.79	177	24.79	74	39.81	174
Nov. 5.8	14.02	61	26.02	137	25.53	77	38.07	130
15.7	14.63	61	24.65	93	26.30	79	36.77	82
25.7	15.24	62	23.72	46	27.09	78	35.95	30
Dez. 5.7	15.86	60	23.26	4	27.87	75	35.65	23
15.7	16.46	55	23.30	54	28.62	71	35.88	76
25.6	17.01	50	23.84	102	29.33	63	36.64	127
35.6	17.51		24.86		29.96		37.91	
Mittl. Ort	9.62		61.23		20.81		74.87	
sec δ, tg δ	2.235		+1.998		2.950		+2.776	

Mittlere Zeit Greenw.	358) ϑ Ursae maj. AR.	Diff.	358) Dekl.	Diff.	359) ψ Argus AR.	Diff.	359) Dekl.	Diff.
1919	9h 27m		+52° 2′		9h 27m		−40° 6′	
Jan. 0.6	29.742	354	31.04	73	32.733	253	40.91	335
10.6	30.096	291	31.77	112	32.986	198	44.26	344
20.6	30.387	220	32.89	147	33.184	141	47.70	344
30.5	30.607	143	34.36	174	33.325	80	51.14	335
Feb. 9.5	30.750	63	36.10	192	33.405	20	54.49	317
19.5	30.813	13	38.02	202	33.425	35	57.66	293
März 1.5	30.800	84	40.04	202	33.390	85	60.59	263
11.4	30.716	147	42.06	192	33.305	128	63.22	229
21.4	30.569	197	43.98	175	33.177	162	65.51	191
31.4	30.372	235	45.73	150	33.015	188	67.42	151
Apr. 10.3	30.137	260	47.23	119	32.827	204	68.93	108
20.3	29.877	270	48.42	84	32.623	212	70.01	65
30.3	29.607	267	49.26	47	32.411	212	70.66	21
Mai 10.3	29.340	255	49.73	8	32.199	205	70.87	23
20.2	29.085	233	49.81	30	31.994	193	70.64	65
30.2	28.852	202	49.51	68	31.801	174	69.99	106
Juni 9.2	28.650	166	48.83	102	31.627	151	68.93	143
19.2	28.484	126	47.81	135	31.476	125	67.50	176
29.1	28.358	81	46.46	163	31.351	94	65.74	205
Juli 9.1	28.277	36	44.83	188	31.257	61	63.69	227
19.1	28.241	11	42.95	210	31.196	25	61.42	243
29.0	28.252	58	40.85	226	31.171	13	58.99	249
Aug. 8.0	28.310	105	38.59	239	31.184	53	56.50	249
18.0	28.415	152	36.20	249	31.237	95	54.01	239
28.0	28.567	199	33.71	253	31.332	138	51.62	218
Sept. 6.9	28.766	244	31.18	254	31.470	182	49.44	190
16.9	29.010	288	28.64	250	31.652	223	47.54	153
26.9	29.298	331	26.14	241	31.875	264	46.01	108
Okt. 6.9	29.629	371	23.73	228	32.139	301	44.93	57
16.8	30.000	407	21.45	209	32.440	331	44.36	1
26.8	30.407	436	19.36	185	32.771	356	44.35	57
Nov. 5.8	30.843	458	17.51	156	33.127	371	44.92	114
15.7	31.301	470	15.95	120	33.498	375	46.06	168
25.7	31.771	468	14.75	82	33.873	369	47.74	219
Dez. 5.7	32.239	455	13.93	39	34.242	350	49.93	262
15.7	32.694	427	13.54	4	34.592	320	52.55	296
25.6	33.121	384	13.58	48	34.912	279	55.51	322
35.6	33.505		14.06		35.191		58.73	
Mittl. Ort	26.961		50.21		30.484		41.49	
sec δ, tg δ	1.626		+1.282		1.308		−0.842	

Mittlere Zeit Greenw.	360) 10 Leonis min.				366) ϑ Antliae				367) ε Leonis				369) υ Argus			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	9ʰ 29ᵐ		+36° 44′		9ʰ 40ᵐ		−27° 23′		9ʰ 41ᵐ		+24° 8′		9ʰ 45ᵐ		−64° 41′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.6	18.353	294	71.74	4	37.454	251	54.99	299	17.516	273	37.49	78	7.73	39	39.81	348
10.6	18.647	243	71.70	30	37.705	205	57.98	303	17.789	231	36.71	48	8.12	30	43.29	373
20.6	18.890	187	72.00	63	37.910	155	61.01	298	18.020	181	36.23	17	8.42	20	47.02	386
30.5	19.077	127	72.63	90	38.065	102	63.99	285	18.201	127	36.06	10	8.62	11	50.88	391
Feb. 9.5	19.204	64	73.53	112	38.167	49	66.84	265	18.328	73	36.16	36	8.73	1	54.79	385
19.5	19.268	3	74.65	128	38.216	2	69.49	242	18.401	19	36.52	57	8.74	8	58.64	369
März 1.5	19.271	51	75.93	136	38.214	47	71.91	214	18.420	29	37.09	72	8.66	16	62.33	346
11.4	19.220	98	77.29	136	38.167	87	74.05	182	18.391	72	37.81	83	8.50	24	65.79	316
21.4	19.122	137	78.65	131	38.080	118	75.87	149	18.319	106	38.64	87	8.26	31	68.95	279
31.4	18.985	166	79.96	118	37.962	142	77.36	114	18.213	131	39.51	87	7.95	35	71.74	238
Apr. 10.4	18.819	182	81.14	102	37.820	157	78.50	79	18.082	148	40.38	81	7.60	39	74.12	192
20.3	18.637	189	82.16	80	37.663	165	79.29	43	17.934	155	41.19	74	7.21	42	76.04	143
30.3	18.448	187	82.96	56	37.498	166	79.72	7	17.779	154	41.93	62	6.79	43	77.47	91
Mai 10.3	18.261	176	83.52	31	37.332	161	79.79	27	17.625	147	42.55	48	6.36	43	78.38	39
20.2	18.085	159	83.83	5	37.171	150	79.52	61	17.478	133	43.03	34	5.93	43	78.77	14
30.2	17.926	135	83.88	21	37.021	135	78.91	93	17.345	115	43.37	19	5.50	40	78.63	67
Juni 9.2	17.791	107	83.67	45	36.886	117	77.98	121	17.230	93	43.56	3	5.10	37	77.96	117
19.2	17.684	78	83.22	69	36.769	94	76.77	148	17.137	68	43.59	13	4.73	34	76.79	163
29.1	17.606	45	82.53	90	36.675	71	75.29	169	17.069	43	43.46	28	4.39	28	75.16	206
Juli 9.1	17.561	11	81.63	111	36.604	43	73.60	185	17.026	15	43.18	43	4.11	23	73.10	241
19.1	17.550	22	80.52	128	36.561	15	71.75	196	17.011	12	42.75	58	3.88	17	70.69	270
29.1	17.572	57	79.24	145	36.546	16	69.79	199	17.023	42	42.17	74	3.71	9	67.99	291
Aug. 8.0	17.629	92	77.79	159	36.562	48	67.80	196	17.065	71	41.43	88	3.62	1	65.08	301
18.0	17.721	127	76.20	172	36.610	82	65.84	186	17.136	102	40.55	103	3.61	7	62.07	301
28.0	17.848	162	74.48	182	36.692	118	63.98	166	17.238	132	39.52	119	3.68	15	59.06	291
Sept. 6.9	18.010	196	72.66	190	36.810	155	62.32	140	17.370	164	38.33	133	3.83	24	56.15	268
16.9	18.206	231	70.76	196	36.965	191	60.92	106	17.534	195	37.00	148	4.07	32	53.47	236
26.9	18.437	265	68.80	199	37.156	226	59.86	66	17.729	228	35.52	159	4.39	40	51.11	194
Okt. 6.9	18.702	298	66.81	197	37.382	261	59.20	20	17.957	258	33.93	171	4.79	47	49.17	142
16.8	19.000	327	64.84	193	37.643	289	59.00	27	18.215	287	32.22	177	5.26	53	47.75	84
26.8	19.327	351	62.91	183	37.932	315	59.27	77	18.502	311	30.45	181	5.79	57	46.91	20
Nov. 5.8	19.678	370	61.08	167	38.247	332	60.04	126	18.813	330	28.64	180	6.36	59	46.71	46
15.8	20.048	381	59.41	148	38.579	340	61.30	171	19.143	343	26.84	172	6.95	60	47.17	111
25.7	20.429	382	57.93	123	38.919	340	63.01	213	19.486	346	25.12	161	7.55	59	48.28	175
Dez. 5.7	20.811	372	56.70	92	39.259	327	65.14	247	19.832	338	23.51	143	8.14	56	50.03	232
15.7	21.183	349	55.78	60	39.586	305	67.61	273	20.170	322	22.08	120	8.70	50	52.35	282
25.6	21.532	317	55.18	24	39.891	273	70.34	290	20.492	293	20.88	93	9.20	43	55.17	325
35.6	21.849		54.94		40.164		73.24		20.785		19.95		9.63		58.42	
Mittl. Ort	16.015		88.61		35.399		53.15		15.423		52.22		4.67		45.37	
sec δ, tg δ	1.248		+0.747		1.126		−0.518		1.096		+0.448		2.339		−2.115	

Mittlere Zeit Greenw.	368) υ Ursae maj. AR.	Diff.	368) υ Ursae maj. Dekl.	Diff.	370) 6 Sextantis AR.	Diff.	370) 6 Sextantis Dekl.	Diff.	372) Gr. 1586 AR.	Diff.	372) Gr. 1586 Dekl.	Diff.	378) π Leonis AR.	Diff.	378) π Leonis Dekl.	Diff.
	$9^h\,45^m$		$+59°\,24'$		$9^h\,47^m$		$-3°\,51'$		$9^h\,51^m$		$+73°\,15'$		$9^h\,55^m$		$+8°\,25'$	
1919																
Jan. 0.6	17.565	434	52.82	91	11.114	251	55.35	214	14.77	71	33.39	140	58.007	264	49.08	161
10.6	17.999	365	53.73	136	11.365	211	57.49	201	15.48	59	34.79	189	58.271	225	47.47	140
20.6	18.364	283	55.09	174	11.576	166	59.50	183	16.07	46	36.68	228	58.496	180	46.07	116
30.6	18.647	193	56.83	205	11.742	117	61.33	163	16.53	30	38.96	258	58.676	132	44.91	90
Feb. 9.5	18.840	100	58.88	226	11.859	67	62.96	139	16.83	15	41.54	277	58.808	81	44.01	64
19.5	18.940	8	61.14	237	11.926	20	64.35	113	16.98	0	44.31	285	58.889	32	43.37	40
März 1.5	18.948	79	63.51	237	11.946	23	65.48	89	16.98	16	47.16	280	58.921	12	42.97	18
11.4	18.869	157	65.88	228	11.923	61	66.37	65	16.82	30	49.96	264	58.909	52	42.79	2
21.4	18.712	222	68.16	207	11.862	91	67.02	42	16.52	41	52.60	236	58.857	83	42.81	19
31.4	18.490	273	70.23	180	11.771	113	67.44	21	16.11	52	54.96	202	58.774	108	43.00	31
Apr. 10.4	18.217	309	72.03	145	11.658	128	67.65	1	15.59	58	56.98	157	58.666	124	43.31	40
20.3	17.908	330	73.48	106	11.530	135	67.66	16	15.01	63	58.55	110	58.542	133	43.71	47
30.3	17.578	335	74.54	62	11.395	136	67.50	33	14.38	64	59.65	58	58.409	134	44.18	52
Mai 10.3	17.243	326	75.16	18	11.259	129	67.17	47	13.74	65	60.23	4	58.275	130	44.70	54
20.3	16.917	306	75.34	26	11.130	119	66.70	59	13.09	61	60.27	48	58.145	119	45.24	54
30.2	16.611	276	75.08	70	11.011	105	66.11	70	12.48	57	59.79	99	58.026	106	45.78	53
Juni 9.2	16.335	237	74.38	111	10.906	88	65.41	80	11.91	50	58.80	147	57.920	89	46.31	51
19.2	16.098	192	73.27	148	10.818	67	64.61	87	11.41	42	57.33	191	57.831	69	46.82	47
29.1	15.906	142	71.79	183	10.751	46	63.74	91	10.99	34	55.42	229	57.762	48	47.29	43
Juli 9.1	15.764	89	69.96	213	10.705	23	62.83	93	10.65	24	53.13	262	57.714	25	47.72	35
19.1	15.675	33	67.83	238	10.682	2	61.90	91	10.41	14	50.51	289	57.689	1	48.07	27
29.1	15.642	24	65.45	258	10.684	28	60.99	85	10.27	2	47.62	311	57.688	24	48.34	16
Aug. 8.0	15.666	81	62.87	274	10.712	54	60.14	75	10.25	7	44.51	324	57.712	51	48.50	3
18.0	15.747	139	60.13	284	10.766	83	59.39	61	10.32	18	41.27	333	57.763	78	48.53	13
28.0	15.886	197	57.29	289	10.849	112	58.78	42	10.50	29	37.94	335	57.841	107	48.40	31
Sept. 7.0	16.083	253	54.40	289	10.961	143	58.36	19	10.79	39	34.59	330	57.948	138	48.09	51
16.9	16.336	310	51.51	284	11.104	174	58.17	8	11.18	49	31.29	318	58.086	169	47.58	73
26.9	16.646	364	48.67	273	11.278	205	58.25	38	11.67	59	28.11	299	58.255	201	46.85	96
Okt. 6.9	17.010	415	45.94	256	11.483	235	58.63	70	12.26	67	25.12	275	58.456	231	45.89	119
16.8	17.425	460	43.38	233	11.718	263	59.33	101	12.93	76	22.37	243	58.687	260	44.70	141
26.8	17.885	499	41.05	204	11.981	287	60.34	132	13.69	82	19.94	204	58.947	286	43.29	160
Nov. 5.8	18.384	530	39.01	170	12.268	306	61.66	160	14.51	86	17.90	160	59.233	307	41.69	175
15.8	18.914	548	37.31	129	12.574	317	63.26	184	15.37	90	16.30	111	59.540	320	39.94	187
25.7	19.462	552	36.02	84	12.891	320	65.10	202	16.27	91	15.19	58	59.860	324	38.07	192
Dez. 5.7	20.014	541	35.18	35	13.211	312	67.12	213	17.18	88	14.61	1	60.184	321	36.15	190
15.7	20.555	513	34.83	15	13.523	296	69.25	219	18.06	84	14.60	56	60.505	306	34.25	183
25.7	21.068	467	34.98	63	13.819	269	71.44	216	18.90	76	15.16	110	60.811	281	32.42	170
35.6	21.535		35.61		14.088		73.60		19.66		16.26		61.092		30.72	
Mittl. Ort	14.616		73.91		9.171		47.55		10.47		55.99		56.086		60.21	
sec δ, tg δ	1.966		+1.693		1.002		−0.067		3.473		+3.326		1.011		+0.148	

Mittlere Zeit Greenw.	379) η Leonis AR.		379) η Leonis Dekl.		380) α Leonis AR.		380) α Leonis Dekl.		381) λ Hydrae AR.		381) λ Hydrae Dekl.		382) q Velorum AR.		382) q Velorum Dekl.	
1919	10ʰ 2ᵐ		+17° 8′		10ʰ 4ᵐ		+12° 21′		10ʰ 6ᵐ		−11° 57′		10ʰ 11ᵐ		−41° 43′	
Jan. 0.6	57.065	278	75.85	123	5.512	273	36.52	145	40.232	264	17.04	246	22.036	304	10.18	317
10.6	57.343	239	74.62	96	5.785	235	35.07	122	40.496	226	19.50	240	22.340	256	13.35	334
20.6	57.582	194	73.66	67	6.020	190	33.85	95	40.722	182	21.90	228	22.596	200	16.69	342
30.6	57.776	144	72.99	38	6.210	141	32.90	67	40.904	133	24.18	210	22.796	142	20.11	340
Feb. 9.5	57.920	92	72.61	11	6.351	91	32.23	42	41.037	85	26.28	189	22.938	82	23.51	330
19.5	58.012	41	72.50	14	6.442	41	31.81	16	41.122	36	28.17	164	23.020	25	26.81	312
März 1.5	58.053	5	72.64	34	6.483	5	31.65	6	41.158	7	29.81	139	23.045	29	29.93	289
11.5	58.048	48	72.98	51	6.478	45	31.71	25	41.151	46	31.20	112	23.016	76	32.82	259
21.4	58.000	81	73.49	61	6.433	79	31.96	38	41.105	79	32.32	85	22.940	116	35.41	226
31.4	57.919	109	74.10	69	6.354	104	32.34	49	41.026	102	33.17	59	22.824	148	37.67	189
Apr. 10.4	57.810	126	74.79	71	6.250	122	32.83	56	40.924	121	33.76	35	22.676	172	39.56	149
20.3	57.684	137	75.50	70	6.128	132	33.39	59	40.803	130	34.11	10	22.504	189	41.05	108
30.3	57.547	139	76.20	65	5.996	135	33.98	59	40.673	134	34.21	12	22.315	198	42.13	66
Mai 10.3	57.408	136	76.85	59	5.861	131	34.57	57	40.539	132	34.09	34	22.117	200	42.79	22
20.3	57.272	126	77.44	51	5.730	123	35.14	54	40.407	125	33.75	54	21.917	197	43.01	21
30.2	57.146	113	77.95	41	5.607	110	35.68	49	40.282	115	33.21	72	21.720	187	42.80	63
Juni 9.2	57.033	96	78.36	30	5.497	94	36.17	42	40.167	100	32.49	89	21.533	173	42.17	103
19.2	56.937	76	78.66	19	5.403	75	36.59	36	40.067	83	31.60	102	21.360	154	41.14	140
29.2	56.861	55	78.85	7	5.328	54	36.95	26	39.984	65	30.58	113	21.206	131	39.74	173
Juli 9.1	56.806	31	78.92	5	5.274	31	37.21	17	39.919	43	29.45	120	21.075	104	38.01	200
19.1	56.775	7	78.87	20	5.243	8	37.38	6	39.876	20	28.25	124	20.971	73	36.01	223
29.1	56.768	20	78.67	34	5.235	17	37.44	7	39.856	5	27.01	123	20.898	39	33.78	237
Aug. 8.0	56.788	46	78.33	49	5.252	43	37.37	21	39.861	32	25.78	115	20.859	0	31.41	243
18.0	56.834	74	77.84	66	5.295	71	37.16	37	39.893	61	24.63	104	20.859	42	28.98	242
28.0	56.908	105	77.18	84	5.366	101	36.79	55	39.954	91	23.59	86	20.901	87	26.56	229
Sept. 7.0	57.013	135	76.34	101	5.467	131	36.24	75	40.045	124	22.73	63	20.988	133	24.27	209
16.9	57.148	168	75.33	120	5.598	163	35.49	95	40.169	158	22.10	35	21.121	181	22.18	179
26.9	57.316	201	74.13	138	5.761	196	34.54	116	40.327	191	21.75	3	21.302	227	20.39	140
Okt. 6.9	57.517	233	72.75	155	5.957	227	33.38	136	40.518	225	21.72	33	21.529	272	18.99	94
16.9	57.750	263	71.20	169	6.184	258	32.02	155	40.743	256	22.05	70	21.801	313	18.05	43
26.8	58.013	290	69.51	180	6.442	284	30.47	171	40.999	283	22.75	108	22.114	347	17.62	13
Nov. 5.8	58.303	313	67.71	187	6.726	307	28.76	182	41.282	305	23.83	143	22.461	372	17.75	70
15.8	58.616	328	65.84	189	7.033	322	26.94	189	41.587	319	25.26	176	22.833	388	18.45	127
25.7	58.944	335	63.95	184	7.355	329	25.05	190	41.906	325	27.02	202	23.221	391	19.72	179
Dez. 5.7	59.279	332	62.11	174	7.684	326	23.15	185	42.231	321	29.04	224	23.612	382	21.51	227
15.7	59.611	318	60.37	158	8.010	312	21.30	174	42.552	306	31.28	237	23.994	361	23.78	268
25.7	59.929	295	58.79	136	8.322	289	19.56	156	42.858	281	33.65	244	24.355	327	26.46	300
35.6	60.224		57.43		8.611		18.00		43.139		36.09		24.682		29.46	
Mittl. Ort	55.144		89.39		3.619		48.81		38.361		11.57		19.935		12.64	
sec δ, tg δ	1.047		+0.309		1.024		+0.219		1.022		−0.212		1.340		−0.891	

Mittlere Zeit Greenw.	384) ζ Leonis AR.		Dekl.		383) λ Ursae maj. AR.		Dekl.		386) μ Ursae maj. AR.		Dekl.		387) 30 H. Urs. maj. AR.		Dekl.	
	10h 12m		+23° 48′		10h 12m		+43° 18′		10h 17m		+41° 53′		10h 18m		+65° 57′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.6	13.226	295	61.95	97	15.246	351	49.77	6	32.668	350	66.62	17	21.41	56	72.50	84
10.6	13.521	256	60.98	64	15.597	305	49.71	37	33.018	305	66.45	26	21.97	49	73.34	135
20.6	13.777	210	60.34	32	15.902	249	50.08	77	33.323	251	66.71	66	22.46	40	74.69	180
30.6	13.987	159	60.02	0	16.151	188	50.85	113	33.574	191	67.37	103	22.86	30	76.49	218
Feb. 9.5	14.146	106	60.02	29	16.339	121	51.98	142	33.765	127	68.40	134	23.16	18	78.67	246
19.5	14.252	52	60.31	54	16.460	56	53.40	165	33.892	62	69.74	157	23.34	7	81.13	264
März 1.5	14.304	3	60.85	73	16.516	7	55.05	177	33.954	1	71.31	172	23.41	3	83.77	268
11.5	14.307	42	61.58	88	16.509	64	56.82	182	33.955	55	73.03	177	23.38	14	86.45	263
21.4	14.265	79	62.46	96	16.445	112	58.64	178	33.900	102	74.80	176	23.24	23	89.08	246
31.4	14.186	108	63.42	98	16.333	151	60.42	166	33.798	141	76.56	165	23.01	30	91.54	220
Apr. 10.4	14.078	129	64.40	96	16.182	179	62.08	147	33.657	170	78.21	148	22.71	36	93.74	185
20.3	13.949	141	65.36	89	16.003	197	63.55	123	33.487	187	79.69	126	22.35	41	95.59	144
30.3	13.808	146	66.25	78	15.806	204	64.78	94	33.300	197	80.95	99	21.94	42	97.03	99
Mai 10.3	13.662	145	67.03	66	15.602	203	65.72	63	33.103	195	81.94	69	21.52	43	98.02	50
20.3	13.517	136	67.69	50	15.399	194	66.35	30	32.908	188	82.63	36	21.09	41	98.52	0
30.2	13.381	123	68.19	34	15.205	178	66.65	4	32.720	174	82.99	4	20.68	40	98.52	48
Juni 9.2	13.258	107	68.53	16	15.027	156	66.61	37	32.546	153	83.03	29	20.28	36	98.04	97
19.2	13.151	87	68.69	1	14.871	130	66.24	69	32.393	130	82.74	60	19.92	31	97.07	140
29.2	13.064	65	68.68	18	14.741	102	65.55	100	32.263	102	82.14	91	19.61	26	95.67	182
Juli 9.1	12.999	42	68.50	37	14.639	69	64.55	128	32.161	71	81.23	118	19.35	20	93.85	219
19.1	12.957	17	68.13	53	14.570	36	63.27	153	32.090	40	80.05	145	19.15	14	91.66	250
29.1	12.940	9	67.60	72	14.534	1	61.74	177	32.050	7	78.60	168	19.01	7	89.16	277
Aug. 8.0	12.949	38	66.88	89	14.533	35	59.97	197	32.043	29	76.92	189	18.94	0	86.39	298
18.0	12.987	67	65.99	106	14.568	74	58.00	214	32.072	66	75.03	208	18.94	8	83.41	313
28.0	13.054	98	64.93	124	14.642	114	55.86	229	32.138	105	72.95	222	19.02	15	80.28	323
Sept. 7.0	13.152	131	63.69	140	14.756	153	53.57	239	32.243	144	70.73	234	19.17	22	77.05	326
16.9	13.283	164	62.29	157	14.909	195	51.18	246	32.387	185	68.39	243	19.39	30	73.79	322
26.9	13.447	199	60.72	171	15.104	237	48.72	249	32.572	227	65.96	247	19.69	37	70.57	313
Okt. 6.9	13.646	233	59.01	183	15.341	278	46.23	247	32.799	267	63.49	247	20.06	44	67.44	297
16.9	13.879	265	57.18	193	15.619	317	43.76	240	33.066	306	61.02	241	20.50	50	64.47	273
26.8	14.144	295	55.25	198	15.936	351	41.36	227	33.372	341	58.61	230	21.00	56	61.74	243
Nov. 5.8	14.439	320	53.27	199	16.287	381	39.09	208	33.713	371	56.31	212	21.56	61	59.31	205
15.8	14.759	337	51.28	192	16.668	401	37.01	182	34.084	393	54.19	189	22.17	65	57.26	162
25.7	15.096	347	49.36	181	17.069	413	35.19	152	34.477	405	52.30	160	22.82	66	55.64	113
Dez. 5.7	15.443	345	47.55	164	17.482	411	33.67	115	34.882	405	50.70	123	23.48	66	54.51	59
15.7	15.788	334	45.91	142	17.893	399	32.52	74	35.287	394	49.47	84	24.14	64	53.92	5
25.7	16.122	311	44.49	113	18.292	371	31.78	32	35.681	368	48.63	42	24.78	60	53.87	52
35.6	16.433		43.36		18.663		31.46		36.049		48.21		25.38		54.39	
Mittl. Ort	11.321		77.40		13.114		69.64		30.606		86.38		18.51		95.97	
sec δ, tg δ	1.093		+0.441		1.374		+0.943		1.344		+0.898		2.456		+2.244	

Mittlere Zeit Greenw.	389) μ Hydrae AR.		389) μ Hydrae Dekl.		391) J Carinae AR.		391) J Carinae Dekl.	
	$10^h\ 22^m$		−16° 25′		$10^h\ 22^m$		−73° 37′	
1919	s		″		s		″	
Jan. 0.7	12.170	278	24.67	258	51.13	64	0.00	310
10.6	12.448	240	27.25	257	51.77	52	3.10	346
20.6	12.688	196	29.82	248	52.29	40	6.56	372
30.6	12.884	149	32.30	235	52.69	26	10.28	389
Feb. 9.5	13.033	100	34.65	214	52.95	13	14.17	393
19.5	13.133	52	36.79	192	53.08	2	18.10	391
März 1.5	13.185	7	38.71	167	53.06	13	22.01	378
11.5	13.192	33	40.38	139	52.93	26	25.79	356
21.4	13.159	66	41.77	112	52.67	36	29.35	329
31.4	13.093	93	42.89	84	52.31	45	32.64	294
Apr. 10.4	13.000	112	43.73	56	51.86	53	35.58	253
20.4	12.888	126	44.29	30	51.33	58	38.11	208
30.3	12.762	131	44.59	4	50.75	63	40.19	160
Mai 10.3	12.631	133	44.63	21	50.12	66	41.79	107
20.3	12.498	128	44.42	45	49.46	67	42.86	54
30.2	12.370	121	43.97	67	48.79	67	43.40	1
Juni 9.2	12.249	109	43.30	87	48.12	64	43.39	55
19.2	12.140	94	42.43	105	47.48	61	42.84	108
29.2	12.046	78	41.38	120	46.87	55	41.76	157
Juli 9.1	11.968	58	40.18	130	46.32	47	40.19	201
19.1	11.910	36	38.88	137	45.85	40	38.18	240
29.1	11.874	12	37.51	139	45.45	29	35.78	271
Aug. 8.1	11.862	15	36.12	136	45.16	17	33.07	293
18.0	11.877	44	34.76	126	44.99	5	30.14	305
28.0	11.921	75	33.50	109	44.94	8	27.09	307
Sept. 7.0	11.996	110	32.41	88	45.02	21	24.02	297
16.9	12.106	145	31.53	61	45.23	36	21.05	275
26.9	12.251	180	30.92	28	45.59	48	18.30	243
Okt. 6.9	12.431	217	30.64	9	46.07	60	15.87	200
16.9	12.648	251	30.73	48	46.67	71	13.87	147
26.8	12.899	281	31.21	88	47.38	79	12.40	89
Nov. 5.8	13.180	305	32.09	128	48.17	84	11.51	24
15.8	13.485	322	33.37	165	49.01	87	11.27	42
25.8	13.807	331	35.02	196	49.88	88	11.69	108
Dez. 5.7	14.138	328	36.98	223	50.76	84	12.77	171
15.7	14.466	316	39.21	241	51.60	78	14.48	230
25.7	14.782	294	41.62	253	52.38	71	16.78	280
35.6	15.076		44.15		53.09		19.58	
Mittl. Ort	10.352		20.67		47.38		8.51	
sec δ, tg δ	1.043		−0.295		3.546		−3.402	

Mittlere Zeit Greenw.	390) 31 Leonis min. AR.		390) 31 Leonis min. Dekl.		392) Lac. α Antliae AR.		392) Lac. α Antliae Dekl.	
	$10^h\ 23^m$		+37° 6′		$10^h\ 23^m$		−30° 39′	
1919	s		″		s		″	
Jan. 0.7	14.259	335	63.00	44	28.513	293	17.89	293
10.6	14.594	294	62.56	2	28.806	251	20.82	303
20.6	14.888	244	62.54	37	29.057	204	23.85	305
30.6	15.132	188	62.91	74	29.261	153	26.90	298
Feb. 9.5	15.320	128	63.65	105	29.414	100	29.88	286
19.5	15.448	68	64.70	130	29.514	48	32.74	266
März 1.5	15.516	11	66.00	148	29.562	0	35.40	242
11.5	15.527	42	67.48	157	29.562	43	37.82	214
21.4	15.485	86	69.05	159	29.519	80	39.96	183
31.4	15.399	123	70.64	153	29.439	109	41.79	150
Apr. 10.4	15.276	150	72.17	140	29.330	131	43.29	115
20.4	15.126	167	73.57	122	29.199	146	44.44	80
30.3	14.959	176	74.79	100	29.053	154	45.24	44
Mai 10.3	14.783	176	75.79	74	28.899	158	45.68	9
20.3	14.607	170	76.53	47	28.741	154	45.77	27
30.2	14.437	158	77.00	17	28.587	148	45.50	61
Juni 9.2	14.279	140	77.17	12	28.439	136	44.89	94
19.2	14.139	119	77.05	40	28.303	122	43.95	123
29.2	14.020	95	76.65	69	28.181	103	42.72	148
Juli 9.1	13.925	68	75.96	95	28.078	82	41.24	170
19.1	13.857	39	75.01	119	27.996	58	39.54	187
29.1	13.818	9	73.82	143	27.938	29	37.67	196
Aug. 8.1	13.809	23	72.39	163	27.909	2	35.71	199
18.0	13.832	58	70.76	183	27.911	35	33.72	195
28.0	13.890	92	68.93	199	27.946	73	31.77	183
Sept. 7.0	13.982	130	66.94	213	28.019	112	29.94	161
16.9	14.112	169	64.81	225	28.131	153	28.33	134
26.9	14.281	208	62.56	233	28.284	194	26.99	98
Okt. 6.9	14.489	247	60.23	236	28.478	234	26.01	56
16.9	14.736	285	57.87	235	28.712	272	25.45	10
26.8	15.021	319	55.52	228	28.984	305	25.35	39
Nov. 5.8	15.340	349	53.24	217	29.289	331	25.74	90
15.8	15.689	370	51.07	197	29.620	348	26.64	138
25.8	16.059	383	49.10	172	29.968	356	28.02	183
Dez. 5.7	16.442	385	47.38	142	30.324	352	29.85	223
15.7	16.827	375	45.96	106	30.676	338	32.08	255
25.7	17.202	352	44.90	67	31.014	310	34.63	279
35.6	17.554		44.23		31.324		37.42	
Mittl. Ort	12.309		81.92		26.605		17.94	
sec δ, tg δ	1.254		+0.757		1.162		−0.593	

Mittlere Zeit Greenw.	393) s Carinae				394) 36 Ursae maj.				395) 9 H. Draconis				404) 33 Sextantis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$10^h\ 24^m$		−58° 19′		$10^h\ 25^m$		+56° 23′		$10^h\ 28^m$		+76° 7′		$10^h\ 37^m$		−1° 18′	
Jan. 0.7	56.581	401	25.49	319	29.558	446	24.55	37	18.90	91	26.60	107	18.687	285	64.03	209
10.6	56.982	337	28.68	348	30.004	391	24.92	88	19.81	79	27.67	162	18.972	251	66.12	196
20.6	57.319	264	32.16	367	30.395	324	25.80	133	20.60	65	29.29	210	19.223	211	68.08	177
30.6	57.583	187	35.83	377	30.719	246	27.13	173	21.25	49	31.39	248	19.434	167	69.85	154
Feb. 9.5	57.770	108	39.60	376	30.965	165	28.86	204	21.74	31	33.87	276	19.601	119	71.39	130
19.5	57.878	32	43.36	367	31.130	80	30.90	226	22.05	11	36.63	293	19.720	71	72.69	104
März 1.5	57.910	41	47.03	350	31.210	2	33.16	237	22.16	5	39.56	297	19.791	28	73.73	79
11.5	57.869	106	50.53	324	31.208	78	35.53	237	22.11	24	42.53	288	19.819	13	74.52	55
21.4	57.763	164	53.77	293	31.130	144	37.90	228	21.87	39	45.41	269	19.806	47	75.07	31
31.4	57.599	212	56.70	258	30.986	200	40.18	209	21.48	53	48.10	238	19.759	75	75.38	12
Apr. 10.4	57.387	251	59.28	216	30.786	242	42.27	182	20.95	64	50.48	199	19.684	95	75.50	5
20.4	57.136	280	61.44	171	30.544	272	44.09	148	20.31	71	52.47	154	19.589	110	75.45	22
30.3	56.856	300	63.15	124	30.272	288	45.57	110	19.60	76	54.01	103	19.479	117	75.23	34
Mai 10.3	56.556	312	64.39	74	29.984	292	46.67	69	18.84	79	55.04	49	19.362	119	74.89	46
20.3	56.244	315	65.13	24	29.692	286	47.36	25	18.05	78	55.53	6	19.243	117	74.43	55
30.2	55.929	310	65.37	27	29.406	269	47.61	19	17.27	75	55.47	60	19.126	111	73.88	63
Juni 9.2	55.619	296	65.10	75	29.137	244	47.42	62	16.52	70	54.87	112	19.015	101	73.25	68
19.2	55.323	275	64.35	123	28.893	214	46.80	103	15.82	63	53.75	161	18.914	89	72.57	72
29.2	55.048	246	63.12	167	28.679	176	45.77	142	15.19	54	52.14	206	18.825	73	71.85	74
Juli 9.1	54.802	210	61.45	205	28.503	136	44.35	176	14.65	43	50.08	245	18.752	56	71.11	73
19.1	54.592	167	59.40	237	28.367	92	42.59	208	14.22	33	47.63	279	18.696	37	70.38	70
29.1	54.425	116	57.03	263	28.275	45	40.51	236	13.89	21	44.84	308	18.659	16	69.68	63
Aug. 8.1	54.309	59	54.40	278	28.230	5	38.15	258	13.68	9	41.76	329	18.643	8	69.05	53
18.0	54.250	2	51.62	286	28.235	56	35.57	276	13.59	5	38.47	344	18.651	35	68.52	40
28.0	54.252	71	48.76	282	28.291	109	32.81	290	13.64	17	35.03	353	18.686	64	68.12	22
Sept. 7.0	54.323	140	45.94	268	28.400	162	29.91	297	13.81	29	31.50	354	18.750	95	67.90	1
16.9	54.463	211	43.26	242	28.562	218	26.94	300	14.10	43	27.96	347	18.845	128	67.89	23
26.9	54.674	281	40.84	207	28.780	273	23.94	298	14.53	55	24.49	334	18.973	163	68.12	50
Okt. 6.9	54.955	346	38.77	162	29.053	327	20.96	287	15.08	67	21.15	314	19.136	198	68.62	78
16.9	55.301	405	37.15	110	29.380	377	18.09	272	15.75	78	18.01	285	19.334	232	69.40	108
26.8	55.706	454	36.05	51	29.757	424	15.37	250	16.53	88	15.16	250	19.566	264	70.48	136
Nov. 5.8	56.160	491	35.54	12	30.181	464	12.87	220	17.41	95	12.66	208	19.830	290	71.84	162
15.8	56.651	512	35.66	75	30.645	492	10.67	184	18.36	102	10.58	159	20.120	310	73.46	185
25.8	57.163	517	36.41	138	31.137	510	8.83	142	19.38	104	8.99	104	20.430	323	75.31	200
Dez. 5.7	57.680	505	37.79	195	31.647	512	7.41	96	20.42	106	7.95	46	20.753	324	77.31	212
15.7	58.185	476	39.74	249	32.159	500	6.45	44	21.48	102	7.49	14	21.077	317	79.43	215
25.7	58.661	432	42.23	293	32.659	469	6.01	7	22.50	96	7.63	73	21.394	298	81.58	212
35.6	59.093		45.16		33.128		6.08		23.46		8.36		21.692		83.70	
Mittl. Ort	54.110		31.91		27.240		47.14		15.00		51.27		16.981		55.60	
sec δ, tg δ	1.904		−1.621		1.807		+1.505		4.172		+4.050		1.000		−0.023	

Mittlere Zeit Greenw.	406) ϑ Argus AR.	Δ	406) ϑ Argus Dekl.	Δ	407) 42 Leonis min. AR.	Δ	407) 42 Leonis min. Dekl.	Δ	408) μ Argus AR.	Δ	408) μ Argus Dekl.	Δ	409) l Leonis AR.	Δ	409) l Leonis Dekl.	Δ
1919	$10^h 40^m$		−63° 58′		$10^h 41^m$		+31° 5′		$10^h 43^m$		−48° 59′		$10^h 45^m$		+10° 57′	
Jan. 0.7	6.48	48	3.18	303	23.683	328	75.71	84	18.926	366	25.94	303	1.740	297	74.58	166
10.6	6.96	41	6.21	338	24.011	293	74.87	44	19.292	317	28.97	329	2.037	264	72.92	142
20.6	7.37	33	9.59	364	24.304	248	74.43	6	19.609	260	32.26	345	2.301	224	71.50	115
30.6	7.70	25	13.23	378	24.552	197	74.37	—32	19.869	198	35.71	354	2.525	180	70.35	86
Feb. 9.6	7.95	15	17.01	383	24.749	142	74.69	66	20.067	135	39.25	352	2.705	131	69.49	56
19.5	8.10	6	20.84	380	24.891	87	75.35	94	20.202	71	42.77	342	2.836	83	68.93	29
März 1.5	8.16	—2	24.64	367	24.978	33	76.29	117	20.273	11	46.19	324	2.919	37	68.64	3
11.5	8.14	11	28.31	346	25.011	—16	77.46	131	20.284	—43	49.43	301	2.956	—5	68.61	—19
21.4	8.03	17	31.77	318	24.995	58	78.77	140	20.241	92	52.44	272	2.951	41	68.80	37
31.4	7.86	23	34.95	285	24.937	94	80.17	140	20.149	132	55.16	238	2.910	70	69.17	50
Apr. 10.4	7.63	28	37.80	247	24.843	122	81.57	134	20.017	166	57.54	199	2.840	93	69.67	60
20.4	7.35	33	40.27	203	24.721	139	82.91	122	19.851	191	59.53	159	2.747	110	70.27	66
30.3	7.02	35	42.30	156	24.582	151	84.13	107	19.660	209	61.12	116	2.637	118	70.93	68
Mai 10.3	6.67	38	43.86	106	24.431	155	85.20	86	19.451	221	62.28	71	2.519	122	71.61	67
20.3	6.29	38	44.92	54	24.276	151	86.06	65	19.230	225	62.99	25	2.397	119	72.28	64
30.3	5.91	39	45.46	2	24.125	144	86.71	40	19.005	224	63.24	—21	2.278	114	72.92	60
Juni 9.2	5.52	38	45.48	—49	23.981	131	87.11	15	18.781	216	63.03	66	2.164	104	73.52	53
19.2	5.14	35	44.99	100	23.850	115	87.26	—11	18.565	204	62.37	109	2.060	93	74.05	45
29.2	4.79	33	43.99	147	23.735	95	87.15	35	18.361	184	61.28	148	1.967	77	74.50	36
Juli 9.1	4.46	29	42.52	190	23.640	74	86.80	60	18.177	160	59.80	184	1.890	60	74.86	26
19.1	4.17	24	40.62	227	23.566	51	86.20	84	18.017	130	57.96	213	1.830	41	75.12	13
29.1	3.93	19	38.35	258	23.515	24	85.36	107	17.887	94	55.83	236	1.789	20	75.25	0
Aug. 8.1	3.74	11	35.77	279	23.491	—4	84.29	129	17.793	53	53.47	252	1.769	—4	75.25	16
18.0	3.63	4	32.98	291	23.495	35	83.00	150	17.740	7	50.95	258	1.773	30	75.09	33
28.0	3.59	—4	30.07	294	23.530	67	81.50	169	17.733	—44	48.37	254	1.803	59	74.76	51
Sept. 7.0	3.63	12	27.13	285	23.597	102	79.81	186	17.777	99	45.83	242	1.862	89	74.25	72
17.0	3.75	21	24.28	264	23.699	140	77.95	202	17.876	156	43.41	218	1.951	124	73.53	94
26.9	3.96	30	21.64	233	23.839	177	75.93	215	18.032	214	41.23	186	2.075	158	72.59	116
Okt. 6.9	4.26	38	19.31	191	24.016	216	73.78	224	18.246	268	39.37	144	2.233	194	71.43	138
16.9	4.64	46	17.40	142	24.232	254	71.54	229	18.514	321	37.93	95	2.427	228	70.05	159
26.8	5.10	51	15.98	85	24.486	290	69.25	230	18.835	366	36.98	40	2.655	262	68.46	177
Nov. 5.8	5.61	56	15.13	22	24.776	321	66.95	224	19.201	402	36.58	—18	2.917	290	66.69	191
15.8	6.17	60	14.91	—42	25.097	344	64.71	213	19.603	426	36.76	77	3.207	312	64.78	201
25.8	6.77	60	15.33	107	25.441	361	62.58	195	20.029	437	37.53	135	3.519	326	62.77	205
Dez. 5.7	7.37	59	16.40	168	25.802	366	60.63	169	20.466	435	38.88	190	3.845	331	60.72	201
15.7	7.96	57	18.08	224	26.168	360	58.94	140	20.901	418	40.78	238	4.176	325	58.71	192
25.7	8.53	51	20.32	274	26.528	343	57.54	105	21.319	387	43.16	279	4.501	309	56.79	176
35.7	9.04		23.06		26.871		56.49		21.706		45.95		4.810		55.03	
Mittl. Ort	3.83		11.19		21.926		93.60		16.843		31.19		0.077		86.81	
sec δ, tg δ	2.279		−2.048		1.168		+0.604		1.524		−1.150		1.019		+0.194	

Mittlere Zeit Greenw.	415) *i* Velorum				416) β Ursae maj.				417) α Ursae maj.				418) γ Leonis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	10h 56m		−41° 47′		10h 56m		+56° 48′		10h 58m		+62° 10′		11h 0m		+7° 45′	
Jan. 0.7	27.960	348	24.43	288	59.771	474	37.07	5	46.56	54	54.30	22	51.973	301	75.85	182
10.6	28.308	307	27.31	312	60.245	428	37.12	59	47.10	49	54.52	79	52.274	272	74.03	160
20.6	28.615	259	30.43	325	60.673	368	37.71	110	47.59	42	55.31	131	52.546	234	72.43	136
30.6	28.874	204	33.68	330	61.041	296	38.81	156	48.01	34	56.62	177	52.780	191	71.07	107
Feb. 9.6	29.078	148	36.98	326	61.337	218	40.37	193	48.35	24	58.39	215	52.971	145	70.00	78
19.5	29.226	91	40.24	316	61.555	135	42.30	223	48.59	15	60.54	243	53.116	97	69.22	51
März 1.5	29.317	37	43.40	299	61.690	52	44.53	241	48.74	6	62.97	261	53.213	52	68.71	23
11.5	29.354	13	46.39	275	61.742	26	46.94	249	48.80	4	65.58	266	53.265	11	68.48	0
21.5	29.341	56	49.14	247	61.716	98	49.43	246	48.76	12	68.24	261	53.276	26	68.48	20
31.4	29.285	93	51.61	215	61.618	159	51.89	232	48.64	20	70.85	245	53.250	57	68.68	37
Apr. 10.4	29.192	124	53.76	180	61.459	209	54.21	211	48.44	25	73.30	220	53.193	80	69.05	49
20.4	29.068	148	55.56	143	61.250	247	56.32	180	48.19	30	75.50	186	53.113	98	69.54	57
30.3	28.920	165	56.99	103	61.003	273	58.12	145	47.89	33	77.36	147	53.015	109	70.11	63
Mai 10.3	28.755	176	58.02	62	60.730	286	59.57	104	47.56	36	78.83	103	52.906	114	70.74	66
20.3	28.579	181	58.64	21	60.444	290	60.61	61	47.20	35	79.86	56	52.792	116	71.40	66
30.3	28.398	182	58.85	20	60.154	283	61.22	15	46.85	35	80.42	8	52.676	113	72.06	63
Juni 9.2	28.216	178	58.65	61	59.871	267	61.37	29	46.50	34	80.50	40	52.563	106	72.69	60
19.2	28.038	169	58.04	98	59.604	245	61.08	74	46.16	30	80.10	88	52.457	96	73.29	55
29.2	27.869	154	57.06	135	59.359	216	60.34	115	45.86	28	79.22	131	52.361	85	73.84	47
Juli 9.2	27.715	136	55.71	166	59.143	181	59.19	155	45.58	23	77.91	174	52.276	70	74.31	39
19.1	27.579	113	54.05	192	58.962	142	57.64	191	45.35	18	76.17	211	52.206	53	74.70	28
29.1	27.466	83	52.13	213	58.820	100	55.73	224	45.17	14	74.06	244	52.153	34	74.98	17
Aug. 8.1	27.383	50	50.00	226	58.720	53	53.49	252	45.03	8	71.62	273	52.119	11	75.15	1
18.0	27.333	12	47.74	231	58.667	4	50.97	275	44.95	2	68.89	296	52.108	13	75.16	15
28.0	27.321	31	45.43	228	58.663	48	48.22	293	44.93	5	65.93	314	52.121	41	75.01	33
Sept. 7.0	27.352	78	43.15	215	58.711	104	45.29	307	44.98	11	62.79	326	52.162	73	74.68	54
17.0	27.430	128	41.00	193	58.815	160	42.22	315	45.09	17	59.53	332	52.235	106	74.14	77
26.9	27.558	179	39.07	162	58.975	219	39.07	317	45.26	24	56.21	332	52.341	141	73.37	100
Okt. 6.9	27.737	230	37.45	123	59.194	278	35.90	311	45.50	31	52.89	323	52.482	178	72.37	124
16.9	27.967	277	36.22	78	59.472	335	32.79	300	45.81	38	49.66	309	52.660	215	71.13	148
26.9	28.244	321	35.44	26	59.807	388	29.79	281	46.19	44	46.57	286	52.875	250	69.65	168
Nov. 5.8	28.565	357	35.18	28	60.195	436	26.98	255	46.63	49	43.71	256	53.125	280	67.97	186
15.8	28.922	383	35.46	83	60.631	475	24.43	220	47.12	54	41.15	218	53.405	304	66.11	200
25.8	29.305	398	36.29	137	61.106	501	22.23	180	47.66	57	38.97	174	53.709	322	64.11	207
Dez. 5.7	29.703	399	37.66	186	61.607	515	20.43	133	48.23	58	37.23	123	54.031	328	62.04	208
15.7	30.102	389	39.52	231	62.122	513	19.10	81	48.81	59	36.00	69	54.359	325	59.96	203
25.7	30.491	366	41.83	267	62.635	492	18.29	27	49.40	56	35.31	11	54.684	312	57.93	190
35.7	30.857		44.50		63.127		18.02		49.96		35.20		54.996		56.03	
Mittl. Ort	26.078		28.38		57.842		60.73		44.52		78.78		50.402		87.09	
sec δ, tg δ	1.341		−0.894		1.827		+1.529		2.143		+1.895		1.009		+0.137	

ttlere Zeit eenw.	420) ψ Ursae maj.				421) β Crateris				422) δ Leonis				423) ϑ Leonis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	11h 5m		+44° 55′		11h 7m		−22° 23′		11h 9m		+20° 57′		11h 9m		+15° 51′	
919																
. 0.7	8.632	391	55.93	49	41.963	313	1.38	259	49.712	321	48.35	141	61.001	313	67.27	158
10.7	9.023	357	55.44	1	42.276	281	3.97	266	50.033	292	46.94	108	61.314	285	65.69	130
20.6	9.380	309	55.45	50	42.557	241	6.63	265	50.325	255	45.86	73	61.599	248	64.39	98
30.6	9.689	254	55.95	94	42.798	197	9.28	259	50.580	210	45.13	36	61.847	205	63.41	64
. 9.6	9.943	191	56.89	133	42.995	150	11.87	244	50.790	162	44.77	2	62.052	159	62.77	32
19.5	10.134	127	58.22	165	43.145	102	14.31	227	50.952	113	44.75	29	62.211	110	62.45	2
z 1.5	10.261	62	59.87	189	43.247	57	16.58	204	51.065	64	45.04	57	62.321	63	62.43	26
11.5	10.323	2	61.76	203	43.304	14	18.62	180	51.129	19	45.61	79	62.384	20	62.69	49
21.5	10.325	53	63.79	208	43.318	23	20.42	153	51.148	21	46.40	94	62.404	19	63.18	67
31.4	10.272	100	65.87	203	43.295	54	21.95	125	51.127	55	47.34	105	62.385	52	63.85	80
. 10.4	10.172	139	67.90	190	43.241	80	23.20	97	51.072	83	48.39	109	62.333	78	64.65	87
20.4	10.033	167	69.80	171	43.161	99	24.17	69	50.989	103	49.48	108	62.255	97	65.52	90
30.4	9.866	188	71.51	143	43.062	112	24.86	40	50.886	117	50.56	102	62.158	111	66.42	89
10.3	9.678	198	72.94	113	42.950	122	25.26	12	50.769	124	51.58	93	62.047	118	67.31	84
20.3	9.480	201	74.07	79	42.828	126	25.38	15	50.645	127	52.51	80	61.929	120	68.15	76
30.3	9.279	198	74.86	43	42.702	125	25.23	41	50.518	125	53.31	65	61.809	119	68.91	66
i 9.2	9.081	187	75.29	5	42.577	123	24.82	66	50.393	118	53.96	48	61.690	112	69.57	55
19.2	8.894	172	75.34	33	42.454	115	24.16	89	50.275	110	54.44	30	61.578	104	70.12	40
29.2	8.722	153	75.01	69	42.339	106	23.27	109	50.165	96	54.74	11	61.474	92	70.52	26
i 9.2	8.569	128	74.32	103	42.233	92	22.18	127	50.069	82	54.85	8	61.382	78	70.78	11
19.1	8.441	103	73.29	137	42.141	76	20.91	139	49.987	64	54.77	29	61.304	62	70.89	6
29.1	8.338	72	71.92	168	42.065	56	19.52	147	49.923	45	54.48	50	61.242	42	70.83	24
g. 8.1	8.266	39	70.24	195	42.009	31	18.05	151	49.878	21	53.98	70	61.200	20	70.59	42
18.1	8.227	2	68.29	220	41.978	4	16.54	147	49.857	5	53.28	91	61.180	5	70.17	62
28.0	8.225	36	66.09	241	41.974	28	15.07	138	49.862	34	52.37	112	61.185	33	69.55	82
t. 7.0	8.261	78	63.68	259	42.002	64	13.69	122	49.896	65	51.25	134	61.218	64	68.73	104
17.0	8.339	123	61.09	272	42.066	103	12.47	98	49.961	101	49.91	153	61.282	99	67.69	124
26.9	8.462	170	58.37	281	42.169	143	11.49	70	50.062	138	48.38	173	61.381	135	66.45	146
. 6.9	8.632	217	55.56	285	42.312	185	10.79	34	50.200	176	46.65	191	61.516	173	64.99	166
16.9	8.849	265	52.71	282	42.497	225	10.45	4	50.376	216	44.74	205	61.689	211	63.33	184
26.9	9.114	309	49.89	273	42.722	263	10.49	46	50.592	252	42.69	216	61.900	248	61.49	199
. 5.8	9.423	350	47.16	257	42.985	296	10.95	88	50.844	286	40.53	222	62.148	280	59.50	209
15.8	9.773	383	44.59	234	43.281	322	11.83	129	51.130	313	38.31	222	62.428	307	57.41	215
25.8	10.156	407	42.25	204	43.603	338	13.12	167	51.443	333	36.09	216	62.735	325	55.26	214
. 5.8	10.563	419	40.21	166	43.941	345	14.79	201	51.776	343	33.93	202	63.060	336	53.12	206
15.7	10.982	420	38.55	123	44.286	340	16.80	228	52.119	343	31.91	183	63.396	335	51.06	192
25.7	11.402	404	37.32	77	44.626	324	19.08	248	52.462	330	30.08	157	63.731	323	49.14	172
35.7	11.806		36.55		44.950		21.56		52.792		28.51		64.054		47.42	
tl. Ort	6.968		77.54		40.331		0.02		48.192		63.72		59.485		81.08	
δ, tg δ	1.413		+0.998		1.081		−0.412		1.071		+0.383		1.040		+0.284	

Mittlere Zeit Greenw.	425) ν Ursae maj. AR.	Δ	425) Dekl.	Δ	426) δ Crateris AR.	Δ	426) Dekl.	Δ	427) σ Leonis AR.	Δ	427) Dekl.	Δ	428) π Centauri AR.	Δ	428) Dekl.	Δ
1919	11h 14m		+33° 31′		11h 15m		−14° 20′		11h 16m		+6° 27′		11h 17m		−54° 2′	
Jan. 0.7	8.004	351	52.23	99	18.922	309	27.95	240	59.117	308	73.66	190	20.453	432	41.54	271
10.7	8.355	320	51.24	55	19.231	279	30.35	241	59.425	281	71.76	169	20.885	387	44.25	307
20.6	8.675	281	50.69	12	19.510	244	32.76	233	59.706	245	70.07	145	21.272	331	47.32	332
30.6	8.956	233	50.57	30	19.754	200	35.09	221	59.951	205	68.62	118	21.603	268	50.64	348
Feb. 9.6	9.189	181	50.87	69	19.954	156	37.30	203	60.156	160	67.44	88	21.871	202	54.12	356
19.5	9.370	125	51.56	102	20.110	110	39.33	182	60.316	114	66.56	59	22.073	135	57.68	354
März 1.5	9.495	72	52.58	130	20.220	65	41.15	158	60.430	69	65.97	33	22.208	69	61.22	344
11.5	9.567	19	53.88	149	20.285	24	42.73	134	60.499	27	65.64	7	22.277	7	64.66	327
21.5	9.586	26	55.37	160	20.309	12	44.07	107	60.526	10	65.57	14	22.284	48	67.93	304
31.4	9.560	66	56.97	164	20.297	42	45.14	83	60.516	41	65.71	32	22.236	98	70.97	275
Apr. 10.4	9.494	99	58.61	161	20.255	68	45.97	58	60.475	66	66.03	45	22.138	140	73.72	241
20.4	9.395	124	60.22	150	20.187	87	46.55	34	60.409	86	66.48	56	21.998	177	76.13	204
30.4	9.271	140	61.72	133	20.100	101	46.89	11	60.323	99	67.04	63	21.821	204	78.17	162
Mai 10.3	9.131	151	63.05	113	19.999	110	47.00	10	60.224	107	67.67	66	21.617	227	79.79	119
20.3	8.980	154	64.18	89	19.889	114	46.90	30	60.117	111	68.33	67	21.390	241	80.98	72
30.3	8.826	152	65.07	62	19.775	115	46.60	49	60.006	110	69.00	67	21.149	250	81.70	25
Juni 9.2	8.674	146	65.69	33	19.660	112	46.11	67	59.896	107	69.67	63	20.899	252	81.95	22
19.2	8.528	136	66.02	4	19.548	106	45.44	82	59.789	100	70.30	59	20.647	247	81.73	69
29.2	8.392	121	66.06	25	19.442	98	44.62	95	59.689	90	70.89	52	20.400	236	81.04	113
Juli 9.2	8.271	104	65.81	54	19.344	86	43.67	105	59.599	78	71.41	44	20.164	216	79.91	153
19.1	8.167	84	65.27	82	19.258	71	42.62	112	59.521	64	71.85	35	19.948	190	78.38	190
29.1	8.083	61	64.45	110	19.187	54	41.50	115	59.457	46	72.20	23	19.758	156	76.48	221
Aug. 8.1	8.022	34	63.35	136	19.133	31	40.35	113	59.411	26	72.43	8	19.602	115	74.27	244
18.1	7.988	6	61.99	160	19.102	6	39.22	107	59.385	2	72.51	8	19.487	67	71.83	259
28.0	7.982	27	60.39	182	19.096	23	38.15	95	59.383	25	72.43	26	19.420	10	69.24	264
Sept. 7.0	8.009	63	58.57	203	19.119	56	37.20	78	59.408	57	72.17	47	19.410	50	66.60	261
17.0	8.072	101	56.54	220	19.175	92	36.42	54	59.465	90	71.70	69	19.460	115	63.99	245
26.9	8.173	141	54.34	236	19.267	131	35.88	27	59.555	126	71.01	94	19.575	183	61.54	221
Okt. 6.9	8.314	185	51.98	247	19.398	172	35.61	5	59.681	164	70.07	118	19.758	249	59.33	186
16.9	8.499	226	49.51	253	19.570	210	35.66	40	59.845	202	68.89	143	20.007	313	57.47	142
26.9	8.725	267	46.98	254	19.780	248	36.06	76	60.047	238	67.46	164	20.320	371	56.05	91
Nov. 5.8	8.992	305	44.44	249	20.028	281	36.82	113	60.285	272	65.82	184	20.691	419	55.14	35
15.8	9.297	335	41.95	237	20.309	307	37.95	148	60.557	298	63.98	199	21.110	455	54.79	25
25.8	9.632	358	39.58	218	20.616	326	39.43	178	60.855	318	61.99	208	21.565	478	55.04	84
Dez. 5.8	9.990	371	37.40	191	20.942	334	41.21	203	61.173	328	59.91	212	22.043	484	55.88	142
15.7	10.361	372	35.49	160	21.276	331	43.24	222	61.501	327	57.79	207	22.527	476	57.30	196
25.7	10.733	361	33.89	122	21.607	319	45.46	235	61.828	317	55.72	197	23.003	451	59.26	244
35.7	11.094		32.67		21.926		47.81		62.145		53.75		23.454		61.70	
Mittl. Ort	6.488		71.20		17.372		24.12		57.638		84.43		18.453		49.08	
sec δ, tg δ	1.200		+0.663		1.032		−0.256		1.006		+0.113		1.703		−1.379	

Mittlere Zeit Greenw.	429) Gr. 1771 AR.		Dekl.		433) λ Draconis AR.		Dekl.		434) ξ Hydrae AR.		Dekl.		436) λ Centauri AR.		Dekl.	
	11h 18m		+64° 45′		11h 26m		+69° 45′		11h 29m		−31° 24′		11h 32m		−62° 34′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.7	5.12	60	61.20	8	38.54	71	75.82	13	2.455	341	31.64	258	4.41	54	7.85	250
10.7	5.72	55	61.28	67	39.25	67	75.95	74	2.796	310	34.22	275	4.95	49	10.35	291
20.6	6.27	47	61.95	123	39.92	58	76.69	132	3.106	272	36.97	285	5.44	42	13.26	325
30.6	6.74	40	63.18	173	40.50	49	78.01	184	3.378	227	39.82	286	5.86	35	16.51	349
Feb. 9.6	7.14	30	64.91	214	40.99	38	79.85	227	3.605	179	42.68	281	6.21	27	20.00	364
19.6	7.44	20	67.05	248	41.37	25	82.12	260	3.784	130	45.49	268	6.48	18	23.64	369
März 1.5	7.64	10	69.53	268	41.62	13	84.72	282	3.914	82	48.17	252	6.66	11	27.33	366
11.5	7.74	0	72.21	278	41.75	1	87.54	291	3.996	37	50.69	229	6.77	3	30.99	355
21.5	7.74	10	74.99	276	41.76	11	90.45	290	4.033	4	52.98	205	6.80	4	34.54	336
31.4	7.64	18	77.75	262	41.65	22	93.35	275	4.029	39	55.03	178	6.76	11	37.90	311
Apr. 10.4	7.46	25	80.37	240	41.43	31	96.10	251	3.990	68	56.81	147	6.65	16	41.01	281
20.4	7.21	32	82.77	208	41.12	39	98.61	219	3.922	92	58.28	117	6.49	22	43.82	244
30.4	6.89	35	84.85	168	40.73	44	100.80	177	3.830	111	59.45	85	6.27	25	46.26	204
Mai 10.3	6.54	38	86.53	125	40.29	49	102.57	131	3.719	124	60.30	52	6.02	29	48.30	159
20.3	6.16	40	87.78	77	39.80	50	103.88	82	3.595	134	60.82	19	5.73	32	49.89	111
30.3	5.76	40	88.55	27	39.30	52	104.70	29	3.461	140	61.01	14	5.41	34	51.00	62
Juni 9.3	5.36	38	88.82	23	38.78	51	104.99	24	3.321	140	60.87	45	5.07	34	51.62	12
19.2	4.98	36	88.59	72	38.27	48	104.75	75	3.181	138	60.42	76	4.73	34	51.74	39
29.2	4.62	34	87.87	120	37.79	44	104.00	125	3.043	131	59.66	104	4.39	34	51.35	89
Juli 9.2	4.28	29	86.67	164	37.35	40	102.75	171	2.912	121	58.62	129	4.05	31	50.46	135
19.1	3.99	24	85.03	205	36.95	34	101.04	214	2.791	106	57.33	150	3.74	28	49.11	178
29.1	3.75	20	82.98	242	36.61	28	98.90	253	2.685	87	55.83	167	3.46	25	47.33	215
Aug. 8.1	3.55	13	80.56	273	36.33	21	96.37	286	2.598	62	54.16	178	3.21	19	45.18	245
18.1	3.42	8	77.83	300	36.12	13	93.51	313	2.536	34	52.38	181	3.02	13	42.73	268
28.0	3.34	1	74.83	321	35.99	5	90.38	335	2.502	1	50.57	178	2.89	6	40.05	281
Sept. 7.0	3.33	7	71.62	335	35.94	4	87.03	350	2.503	39	48.79	168	2.83	2	37.24	283
17.0	3.40	14	68.27	344	35.98	13	83.53	357	2.542	83	47.11	149	2.85	10	34.41	275
27.0	3.54	21	64.83	346	36.11	22	79.96	359	2.625	128	45.62	122	2.95	19	31.66	255
Okt. 6.9	3.75	29	61.37	340	36.33	32	76.37	352	2.753	175	44.40	90	3.14	28	29.11	225
16.9	4.04	36	57.97	326	36.65	41	72.85	337	2.928	221	43.50	50	3.42	36	26.86	184
26.9	4.40	44	54.71	306	37.06	50	69.48	314	3.149	265	43.00	6	3.78	43	25.02	136
Nov. 5.8	4.84	50	51.65	275	37.56	58	66.34	284	3.414	303	42.94	40	4.21	50	23.66	80
15.8	5.34	56	48.90	239	38.14	65	63.50	243	3.717	334	43.34	87	4.71	55	22.86	20
25.8	5.90	60	46.51	194	38.79	70	61.07	197	4.051	355	44.21	133	5.26	58	22.66	43
Dez. 5.8	6.50	62	44.57	142	39.49	74	59.10	143	4.406	366	45.54	174	5.84	59	23.09	104
15.7	7.12	63	43.15	86	40.23	75	57.67	85	4.772	364	47.28	212	6.43	59	24.13	163
25.7	7.75	61	42.29	28	40.98	74	56.82	24	5.136	352	49.40	241	7.02	56	25.76	218
35.7	8.36		42.01		41.72		56.58		5.488		51.81		7.58		27.94	
Mittl. Ort	3.32		86.43		36.76		101.73		0.866		33.54		2.24		17.57	
sec δ, tg δ	2.346		+2.123		2.893		+2.715		1.172		−0.611		2.171		−1.927	

Mittlere Zeit Greenw.	437) ο Leonis				440) 3 Draconis				441) χ Ursae maj.				444) β Leonis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$11^h\ 32^m$		$-0°\ 22'$		$11^h\ 37^m$		$+67°\ 10'$		$11^h\ 41^m$		$+48°\ 13'$		$11^h\ 44^m$		$+15°\ 0'$	
Jan. 0.7	49.488	312	43.65	210	59.57	66	70.28	9	48.067	425	20.08	74	57.060	324	76.24	175
10.7	49.800	287	45.75	195	60.23	61	70.19	52	48.492	397	19.34	20	57.384	302	74.49	147
20.7	50.087	255	47.70	177	60.84	54	70.71	111	48.889	357	19.14	34	57.686	270	73.02	114
30.6	50.342	215	49.47	155	61.38	47	71.82	165	49.246	305	19.48	85	57.956	233	71.88	80
Feb. 9.6	50.557	173	51.02	129	61.85	37	73.47	211	49.551	246	20.33	130	58.189	189	71.08	46
19.6	50.730	128	52.31	102	62.22	26	75.58	247	49.797	181	21.63	170	58.378	143	70.62	11
März 1.5	50.858	85	53.33	75	62.48	15	78.05	272	49.978	115	23.33	200	58.521	99	70.51	18
11.5	50.943	44	54.08	49	62.63	3	80.77	286	50.093	50	25.33	221	58.620	55	70.69	45
21.5	50.987	7	54.57	25	62.66	6	83.63	289	50.143	10	27.54	232	58.675	15	71.14	66
31.5	50.994	25	54.82	5	62.60	16	86.52	278	50.133	64	29.86	232	58.690	19	71.80	83
Apr. 10.4	50.969	51	54.87	13	62.44	25	89.30	257	50.069	111	32.18	223	58.671	49	72.63	93
20.4	50.918	71	54.74	28	62.19	32	91.87	229	49.958	148	34.41	205	58.622	72	73.56	98
30.4	50.847	87	54.46	40	61.87	38	94.16	190	49.810	178	36.46	181	58.550	89	74.54	99
Mai 10.4	50.760	98	54.06	50	61.49	41	96.06	147	49.632	199	38.27	150	58.461	102	75.53	96
20.3	50.662	103	53.56	57	61.08	44	97.53	99	49.433	211	39.77	115	58.359	110	76.49	89
30.3	50.559	106	52.99	63	60.64	44	98.52	48	49.222	216	40.92	76	58.249	115	77.38	80
Juni 9.3	50.453	105	52.36	66	60.20	45	99.00	3	49.006	215	41.68	36	58.134	114	78.18	67
19.2	50.348	102	51.70	68	59.75	42	98.97	55	48.791	207	42.04	5	58.020	112	78.85	54
29.2	50.246	95	51.02	67	59.33	40	98.42	104	48.584	194	41.99	47	57.908	105	79.39	39
Juli 9.2	50.151	86	50.35	65	58.93	37	97.38	151	48.390	177	41.52	87	57.803	97	79.78	22
19.2	50.065	74	49.70	61	58.56	32	95.87	195	48.213	154	40.65	125	57.706	86	80.00	4
29.1	49.991	58	49.09	53	58.24	26	93.92	236	48.059	128	39.40	162	57.620	71	80.04	14
Aug. 8.1	49.933	40	48.56	43	57.98	21	91.56	270	47.931	97	37.78	195	57.549	52	79.90	34
18.1	49.893	17	48.13	30	57.77	14	88.86	300	47.834	62	35.83	224	57.497	30	79.56	55
28.0	49.876	10	47.83	13	57.63	7	85.86	324	47.772	23	33.59	251	57.467	4	79.01	76
Sept. 7.0	49.886	40	47.70	5	57.56	1	82.62	342	47.749	21	31.08	274	57.463	26	78.25	98
17.0	49.926	73	47.75	29	57.57	9	79.20	353	47.770	68	28.34	291	57.489	61	77.27	122
27.0	49.999	111	48.04	53	57.66	18	75.67	357	47.838	119	25.43	304	57.550	98	76.05	143
Okt. 6.9	50.110	150	48.57	81	57.84	26	72.10	354	47.957	172	22.39	311	57.648	137	74.62	166
16.9	50.260	190	49.38	108	58.10	34	68.56	343	48.129	226	19.28	310	57.785	179	72.96	186
26.9	50.450	227	50.46	135	58.44	43	65.13	324	48.355	278	16.18	305	57.964	218	71.10	203
Nov. 5.9	50.677	263	51.81	161	58.87	51	61.89	295	48.633	327	13.13	289	58.182	256	69.07	215
15.8	50.940	291	53.42	182	59.38	57	58.94	259	48.960	370	10.24	267	58.438	288	66.92	223
25.8	51.231	313	55.24	199	59.95	62	56.35	215	49.330	405	7.57	238	58.726	313	64.69	225
Dez. 5.8	51.544	326	57.23	210	60.57	66	54.20	163	49.735	427	5.19	199	59.039	329	62.44	219
15.7	51.870	328	59.33	215	61.23	68	52.57	106	50.162	437	3.20	154	59.368	335	60.25	207
25.7	52.198	320	61.48	212	61.91	66	51.51	46	50.599	433	1.66	105	59.703	330	58.18	187
35.7	52.518		63.60		62.57		51.05		51.032		0.61		60.033		56.31	
Mittl. Ort	48.084		35.34		58.09		96.06		46.766		42.78		55.769		89.66	
sec δ, tg δ	1.000		−0.006		2.580		+2.378		1.501		+1.119		1.035		+0.268	

Mittlere Zeit Greenw.	445) β Virginis AR.		445) β Virginis Dekl.		447) γ Ursae maj. AR.		447) γ Ursae maj. Dekl.		450) ο Virginis AR.		450) ο Virginis Dekl.		452) δ Centauri AR.		452) δ Centauri Dekl.	
1919	11ʰ 46ᵐ		+2° 12′		11ʰ 49ᵐ		+54° 7′		12ʰ 1ᵐ		+9° 10′		12ʰ 4ᵐ		−50° 16′	
Jan. 0.7	29.878	318	67.26	206	35.856	472	78.40	64	6.225	324	46.68	193	10.816	443	8.66	226
10.7	30.196	296	65.20	189	36.328	445	77.76	7	6.549	304	44.75	170	11.259	413	10.92	263
20.7	30.492	266	63.31	169	36.773	402	77.69	51	6.853	276	43.05	142	11.672	370	13.55	291
30.6	30.758	228	61.62	144	37.175	346	78.20	104	7.129	241	41.63	113	12.042	321	16.46	312
Feb. 9.6	30.986	187	60.18	116	37.521	281	79.24	152	7.370	200	40.50	80	12.363	265	19.58	324
19.6	31.173	144	59.02	88	37.802	211	80.76	193	7.570	157	39.70	48	12.628	208	22.82	328
März 1.6	31.317	100	58.14	60	38.013	136	82.69	224	7.727	114	39.22	18	12.836	149	26.10	324
11.5	31.417	59	57.54	34	38.149	63	84.93	244	7.841	72	39.04	10	12.985	92	29.34	314
21.5	31.476	22	57.20	11	38.212	6	87.37	255	7.913	33	39.14	34	13.077	40	32.48	297
31.5	31.498	11	57.09	10	38.206	70	89.92	254	7.946	0	39.48	53	13.117	10	35.45	275
Apr. 10.4	31.487	38	57.19	27	38.136	125	92.46	242	7.946	30	40.01	67	13.107	53	38.20	248
20.4	31.449	60	57.46	41	38.011	170	94.88	224	7.916	53	40.68	77	13.054	92	40.68	217
30.4	31.389	78	57.87	51	37.841	207	97.12	195	7.863	73	41.45	83	12.962	125	42.85	182
Mai 10.4	31.311	89	58.38	59	37.634	233	99.07	161	7.790	88	42.28	85	12.837	154	44.67	145
20.3	31.222	98	58.97	63	37.401	251	100.68	122	7.702	97	43.13	83	12.683	177	46.12	104
30.3	31.124	103	59.60	66	37.150	258	101.90	79	7.605	104	43.96	80	12.506	195	47.16	63
Juni 9.3	31.021	103	60.26	67	36.892	260	102.69	35	7.501	108	44.76	72	12.311	208	47.79	18
19.3	30.918	103	60.93	65	36.632	252	103.04	10	7.393	108	45.48	65	12.103	216	47.97	24
29.2	30.815	97	61.58	62	36.380	239	102.94	55	7.285	106	46.13	54	11.887	217	47.73	67
Juli 9.2	30.718	90	62.20	57	36.141	220	102.39	99	7.179	99	46.67	41	11.670	211	47.06	107
19.2	30.628	80	62.77	50	35.921	196	101.40	141	7.080	91	47.08	29	11.459	198	45.99	145
29.1	30.548	67	63.27	41	35.725	166	99.99	180	6.989	79	47.37	13	11.261	178	44.54	179
Aug. 8.1	30.481	49	63.68	29	35.559	130	98.19	215	6.910	63	47.50	3	11.083	150	42.75	205
18.1	30.432	27	63.97	14	35.429	92	96.04	246	6.847	43	47.47	21	10.933	113	40.70	226
28.1	30.405	2	64.11	2	35.337	46	93.58	275	6.804	18	47.26	41	10.820	69	38.44	239
Sept. 7.0	30.403	27	64.09	22	35.291	3	90.83	296	6.786	11	46.85	63	10.751	16	36.05	242
17.0	30.430	62	63.87	45	35.294	56	87.87	315	6.797	44	46.22	86	10.735	42	33.63	235
27.0	30.492	98	63.42	70	35.350	113	84.72	326	6.841	81	45.36	109	10.777	105	31.28	220
Okt. 7.0	30.590	138	62.72	95	35.463	174	81.46	331	6.922	122	44.27	134	10.882	171	29.08	195
16.9	30.728	179	61.77	122	35.637	234	78.15	329	7.044	162	42.93	157	11.053	235	27.13	159
26.9	30.907	217	60.55	147	35.871	294	74.86	319	7.206	204	41.36	178	11.288	298	25.54	116
Nov. 5.9	31.124	255	59.08	170	36.165	349	71.67	302	7.410	243	39.58	196	11.586	354	24.38	67
15.8	31.379	286	57.38	189	36.514	399	68.65	276	7.653	277	37.62	210	11.940	400	23.71	14
25.8	31.665	310	55.49	204	36.913	439	65.89	241	7.930	303	35.52	217	12.340	434	23.57	42
Dez. 5.8	31.975	325	53.45	213	37.352	468	63.48	200	8.233	322	33.35	220	12.774	455	23.99	96
15.8	32.300	330	51.32	215	37.820	481	61.48	151	8.555	330	31.15	214	13.229	461	24.95	150
25.7	32.630	325	49.17	210	38.301	480	59.97	97	8.885	328	29.01	201	13.690	451	26.45	197
35.7	32.955		47.07		38.781		59.00		9.213		27.00		14.141		28.42	
Mittl. Ort	28.561		76.31		34.638		102.29		5.020		57.97		9.210		16.68	
sec δ, tg δ	1.001		+0.039		1.707		+1.384		1.013		+0.162		1.565		−1.203	

Mittlere Zeit Greenw.	453) ε Corvi				454) 4 H. Draconis				456) δ Ursae maj.				459) β Chamael.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	12ʰ 5ᵐ		−22° 10′		12ʰ 8ᵐ		+78° 3′		12ʰ 11ᵐ		+57° 28′		12ʰ 13ᵐ		−78° 51′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.7	58.678	339	9.74	231	25.98	115	31.98	19	26.394	509	32.78	80	36.91	124	31.94	169
10.7	59.017	318	12.05	241	27.13	110	31.79	47	26.903	487	31.98	19	38.15	116	33.63	223
20.7	59.335	288	14.46	245	28.23	102	32.26	109	27.390	448	31.79	40	39.31	105	35.86	271
30.6	59.623	252	16.91	241	29.25	89	33.35	168	27.838	396	32.19	98	40.36	91	38.57	311
Feb. 9.6	59.875	209	19.32	232	30.14	74	35.03	218	28.234	331	33.17	150	41.27	75	41.68	342
19.6	60.084	167	21.64	218	30.88	56	37.21	260	28.565	258	34.67	195	42.02	58	45.10	364
März 1.6	60.251	122	23.82	200	31.44	36	39.81	289	28.823	180	36.62	230	42.60	41	48.74	377
11.5	60.373	81	25.82	179	31.80	17	42.70	307	29.003	102	38.92	255	43.01	24	52.51	381
21.5	60.454	43	27.61	155	31.97	4	45.77	311	29.105	26	41.47	269	43.25	7	56.32	378
31.5	60.497	8	29.16	132	31.93	24	48.88	305	29.131	46	44.16	271	43.32	9	60.10	365
Apr. 10.5	60.505	22	30.48	107	31.69	40	51.93	285	29.085	109	46.87	263	43.23	26	63.75	345
20.4	60.483	47	31.55	82	31.29	56	54.78	257	28.976	164	49.50	245	42.97	40	67.20	319
30.4	60.436	68	32.37	57	30.73	70	57.35	218	28.812	209	51.95	219	42.57	53	70.39	286
Mai 10.4	60.368	85	32.94	32	30.03	79	59.53	174	28.603	245	54.14	184	42.04	65	73.25	246
20.3	60.283	99	33.26	8	29.24	87	61.27	124	28.358	270	55.98	145	41.39	76	75.71	202
30.3	60.184	108	33.34	15	28.37	92	62.51	70	28.088	286	57.43	102	40.63	83	77.73	153
Juni 9.3	60.076	116	33.19	38	27.45	93	63.21	15	27.802	293	58.45	56	39.80	90	79.26	101
19.3	59.960	119	32.81	59	26.52	93	63.36	41	27.509	293	59.01	8	38.90	94	80.27	46
29.2	59.841	119	32.22	80	25.59	90	62.95	94	27.216	284	59.09	40	37.96	95	80.73	9
Juli 9.2	59.722	115	31.42	97	24.69	85	62.01	147	26.932	269	58.69	87	37.01	93	80.64	64
19.2	59.607	108	30.45	111	23.84	77	60.54	195	26.663	247	57.82	131	36.08	89	80.00	118
29.2	59.499	96	29.34	123	23.07	69	58.59	239	26.416	219	56.51	174	35.19	81	78.82	168
Aug. 8.1	59.403	79	28.11	129	22.38	58	56.20	278	26.197	184	54.77	213	34.38	70	77.14	212
18.1	59.324	57	26.82	131	21.80	46	53.42	312	26.013	143	52.64	248	33.68	56	75.02	250
28.1	59.267	30	25.51	127	21.34	33	50.30	339	25.870	98	50.16	279	33.12	41	72.52	279
Sept. 7.0	59.237	3	24.24	117	21.01	20	46.91	360	25.772	45	47.37	304	32.71	22	69.73	299
17.0	59.240	42	23.07	101	20.81	4	43.31	373	25.727	12	44.33	324	32.49	2	66.74	308
27.0	59.282	83	22.06	78	20.77	12	39.58	379	25.739	74	41.09	339	32.47	19	63.66	304
Okt. 7.0	59.365	128	21.28	51	20.89	28	35.79	376	25.813	140	37.70	346	32.66	40	60.62	289
16.9	59.493	174	20.77	17	21.17	44	32.03	366	25.953	208	34.24	346	33.06	61	57.73	263
26.9	59.667	220	20.60	19	21.61	60	28.37	346	26.161	274	30.78	338	33.67	80	55.10	224
Nov. 5.9	59.887	260	20.79	58	22.21	75	24.91	318	26.435	339	27.40	321	34.47	98	52.86	177
15.9	60.147	296	21.37	97	22.96	88	21.73	280	26.774	398	24.19	296	35.45	111	51.09	121
25.8	60.443	323	22.34	133	23.84	100	18.93	235	27.172	446	21.23	261	36.56	121	49.88	61
Dez. 5.8	60.766	342	23.67	168	24.84	109	16.58	181	27.618	484	18.62	220	37.77	127	49.27	4
15.8	61.108	349	25.35	196	25.93	114	14.77	121	28.102	507	16.42	169	39.04	129	49.31	67
25.7	61.457	344	27.31	218	27.07	116	13.56	58	28.609	512	14.73	114	40.33	127	49.98	130
35.7	61.801		29.49		28.23		12.98		29.121		13.59		41.60		51.28	
Mittl. Ort	57.357		9.47		25.30		58.70		25.476		57.19		33.93		45.10	
sec δ, tg δ	1.080		−0.407		4.836		+4.732		1.860		+1.569		5.177		−5.080	

Mittlere Zeit Greenw.	460) η Virginis				462) α Crucis med.				466) 20 Comae				465) δ Corvi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	12h 15m		−0° 13′		12h 22m		−62° 38′		12h 25m		+21° 20′		12h 25m		−16° 3′	
Jan. 0.7	46.829s	324	8.13″	209	6.92s	59	51.38″	188	40.200s	341	25.07″	178	41.422s	336	54.62″	219
10.7	47.153	308	10.22	197	7.51	55	53.26	236	40.541	327	23.29	144	41.758	320	56.81	224
20.7	47.461	281	12.19	178	8.06	51	55.62	275	40.868	302	21.85	106	42.078	293	59.05	223
30.7	47.742	248	13.97	156	8.57	45	58.37	308	41.170	269	20.79	66	42.371	260	61.28	215
Febr. 9.6	47.990	210	15.53	130	9.02	37	61.45	330	41.439	230	20.13	24	42.631	223	63.43	202
19.6	48.200	169	16.83	103	9.39	31	64.75	345	41.669	188	19.89	15	42.854	182	65.45	185
März 1.6	48.369	128	17.86	74	9.70	22	68.20	352	41.857	142	20.04	51	43.036	141	67.30	164
11.5	48.497	88	18.60	48	9.92	15	71.72	350	41.999	99	20.55	81	43.177	101	68.94	142
21.5	48.585	50	19.08	23	10.07	8	75.22	341	42.098	57	21.36	106	43.278	64	70.36	119
31.5	48.635	17	19.31	1	10.15	1	78.63	325	42.155	19	22.42	124	43.342	29	71.55	96
Apr. 10.5	48.652	12	19.32	18	10.16	5	81.88	302	42.174	14	23.66	136	43.371	1	72.51	74
20.4	48.640	37	19.14	33	10.11	11	84.90	275	42.160	43	25.02	140	43.370	26	73.25	52
30.4	48.603	57	18.81	45	10.00	17	87.65	242	42.117	67	26.42	140	43.344	49	73.77	31
Mai 10.4	48.546	73	18.36	55	9.83	21	90.07	203	42.050	86	27.82	132	43.295	67	74.08	11
20.4	48.473	85	17.81	61	9.62	26	92.10	162	41.964	101	29.14	121	43.228	83	74.19	7
30.3	48.388	95	17.20	65	9.36	29	93.72	117	41.863	111	30.35	106	43.145	94	74.12	25
Juni 9.3	48.293	101	16.55	68	9.07	31	94.89	69	41.752	119	31.41	88	43.051	104	73.87	42
19.3	48.192	104	15.87	69	8.76	33	95.58	19	41.633	122	32.29	68	42.947	110	73.45	57
29.2	48.088	105	15.18	66	8.43	34	95.77	29	41.511	123	32.97	45	42.837	113	72.88	71
Juli 9.2	47.983	102	14.52	63	8.09	34	95.48	78	41.388	121	33.42	21	42.724	113	72.17	82
19.2	47.881	96	13.89	58	7.75	32	94.70	125	41.267	114	33.63	3	42.611	108	71.35	91
29.2	47.785	87	13.31	49	7.43	30	93.45	167	41.153	104	33.60	28	42.503	101	70.44	98
Aug. 8.1	47.698	73	12.82	40	7.13	27	91.78	205	41.049	89	33.32	54	42.402	87	69.46	100
18.1	47.625	54	12.42	27	6.86	21	89.73	236	40.960	71	32.78	79	42.315	69	68.46	99
28.1	47.571	31	12.15	11	6.65	15	87.37	258	40.889	47	31.99	105	42.246	44	67.47	93
Sept. 7.1	47.540	3	12.04	7	6.50	8	84.79	272	40.842	18	30.94	131	42.202	14	66.54	82
17.0	47.537	31	12.11	28	6.42	1	82.07	275	40.824	16	29.63	155	42.188	21	65.72	65
27.0	47.568	67	12.39	53	6.43	9	79.32	268	40.840	54	28.08	179	42.209	60	65.07	45
Okt. 7.0	47.635	109	12.92	78	6.52	18	76.64	249	40.894	96	26.29	201	42.269	105	64.62	17
16.9	47.744	151	13.70	105	6.70	28	74.15	220	40.990	140	24.28	220	42.374	149	64.45	12
26.9	47.895	193	14.75	131	6.98	36	71.95	181	41.130	185	22.08	235	42.523	195	64.57	44
Nov. 5.9	48.088	233	16.06	157	7.34	44	70.14	133	41.315	228	19.73	246	42.718	238	65.01	79
15.9	48.321	269	17.63	178	7.78	51	68.81	80	41.543	267	17.27	250	42.956	275	65.80	113
25.8	48.590	297	19.41	196	8.29	56	68.01	21	41.810	300	14.77	247	43.231	305	66.93	143
Dez. 5.8	48.887	318	21.37	208	8.85	59	67.80	38	42.110	324	12.30	238	43.536	327	68.36	172
15.8	49.205	327	23.45	213	9.44	60	68.18	98	42.434	339	9.92	220	43.863	338	70.08	195
25.8	49.532	327	25.58	212	10.04	60	69.16	153	42.773	342	7.72	195	44.201	339	72.03	210
35.7	49.859		27.70		10.64		70.69		43.115		5.77		44.540		74.13	
Mittl. Ort	45.675		0.35		5.19		62.48		39.208		40.10		40.247		52.63	
sec δ, tg δ	1.000		—0.004		2.177		—1.933		1.074		+0.391		1.041		—0.288	

Mittlere Zeit Greenw.	470) 8 Canum ven.				472) κ Draconis				471) β Corvi				473) 24 Comae sq.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	12ʰ 29ᵐ		+41° 47′		12ʰ 30ᵐ		+70° 13′		12ʰ 30ᵐ		−22° 56′		12ʰ 31ᵐ		+18° 48′	
Jan. 0.7	54.825	396	29.72	139	2.39	74	38.49	70	8.898	348	55.87	218	5.058	338	67.97	186
10.7	55.221	383	28.33	87	3.13	72	37.79	3	9.246	332	58.05	230	5.396	324	66.11	153
20.7	55.604	356	27.46	33	3.85	68	37.76	60	9.578	305	60.35	235	5.720	301	64.58	117
30.7	55.960	319	27.13	20	4.53	61	38.36	123	9.883	272	62.70	235	6.021	270	63.41	78
Feb. 9.6	56.279	273	27.33	72	5.14	52	39.59	177	10.155	233	65.05	227	6.291	232	62.63	38
19.6	56.552	221	28.05	118	5.66	42	41.36	225	10.388	192	67.32	216	6.523	190	62.25	0
März 1.6	56.773	167	29.23	157	6.08	30	43.61	262	10.580	150	69.48	199	6.713	146	62.25	35
11.6	56.940	111	30.80	189	6.38	18	46.23	288	10.730	109	71.47	181	6.859	104	62.60	67
21.5	57.051	57	32.69	211	6.56	6	49.11	302	10.839	71	73.28	159	6.963	63	63.27	92
31.5	57.108	7	34.80	224	6.62	6	52.13	303	10.910	35	74.87	136	7.026	26	64.19	112
Apr. 10.5	57.115	37	37.04	227	6.56	18	55.16	293	10.945	4	76.23	113	7.052	7	65.31	124
20.4	57.078	77	39.31	221	6.38	26	58.09	272	10.949	23	77.36	90	7.045	36	66.55	131
30.4	57.001	110	41.52	206	6.12	35	60.81	242	10.926	48	78.26	66	7.009	59	67.86	132
Mai 10.4	56.891	136	43.58	186	5.77	42	63.23	204	10.878	67	78.92	42	6.950	79	69.18	128
20.4	56.755	156	45.44	158	5.35	47	65.27	160	10.811	84	79.34	19	6.871	94	70.46	118
30.3	56.599	172	47.02	127	4.88	51	66.87	111	10.727	99	79.53	3	6.777	106	71.64	105
Juni 9.3	56.427	180	48.29	91	4.37	53	67.98	59	10.628	109	79.50	26	6.671	113	72.69	90
19.3	56.247	185	49.20	54	3.84	54	68.57	6	10.519	117	79.24	47	6.558	119	73.59	71
29.3	56.062	184	49.74	15	3.30	53	68.63	47	10.402	121	78.77	67	6.439	120	74.30	51
Juli 9.2	55.878	179	49.89	25	2.77	50	68.16	100	10.281	122	78.10	86	6.319	118	74.81	30
19.2	55.699	169	49.64	63	2.27	48	67.16	149	10.159	119	77.24	101	6.201	114	75.11	7
29.2	55.530	155	49.01	101	1.79	44	65.67	195	10.040	111	76.23	113	6.087	105	75.18	17
Aug. 8.1	55.375	135	48.00	138	1.35	38	63.72	238	9.929	97	75.10	122	5.982	91	75.01	40
18.1	55.240	110	46.62	173	0.97	32	61.34	276	9.832	78	73.88	126	5.891	73	74.61	66
28.1	55.130	81	44.89	204	0.65	24	58.58	309	9.754	53	72.62	125	5.818	51	73.95	90
Sept. 7.1	55.049	45	42.85	233	0.41	17	55.49	335	9.701	21	71.37	118	5.767	22	73.05	116
17.0	55.004	3	40.52	259	0.24	7	52.14	355	9.680	16	70.19	104	5.745	11	71.89	140
27.0	55.001	42	37.93	280	0.17	2	48.59	369	9.696	59	69.15	85	5.756	48	70.49	164
Okt. 7.0	55.043	91	35.13	296	0.19	12	44.90	374	9.755	104	68.30	60	5.804	90	68.85	187
17.0	55.134	145	32.17	307	0.31	23	41.16	372	9.859	151	67.70	29	5.894	134	66.98	208
26.9	55.279	197	29.10	311	0.54	33	37.44	359	10.010	199	67.41	5	6.028	179	64.90	224
Nov. 5.9	55.476	249	25.99	307	0.87	44	33.85	339	10.209	244	67.46	42	6.207	222	62.66	237
15.9	55.725	296	22.92	296	1.31	53	30.46	309	10.453	283	67.88	80	6.429	261	60.29	243
25.8	56.021	337	19.96	276	1.84	61	27.37	271	10.736	315	68.68	116	6.690	294	57.86	244
Dez. 5.8	56.358	368	17.20	247	2.45	68	24.66	222	11.051	338	69.84	151	6.984	319	55.42	237
15.8	56.726	389	14.73	211	3.13	72	22.44	168	11.389	350	71.35	180	7.303	334	53.05	223
25.8	57.115	396	12.62	167	3.85	74	20.76	106	11.739	349	73.15	204	7.637	339	50.82	200
35.7	57.511		10.95		4.59		19.70		12.088		75.19		7.976		48.82	
Mittl. Ort	53.994		50.59		2.03		64.40		7.709		56.33		4.090		82.08	
sec δ, tg δ	1.341		+0.894		2.957		+2.783		1.086		−0.423		1.057		+0.341	

Mittlere Zeit Greenw.	474) α Muscae AR.		474) α Muscae Dekl.		476) γ Centauri AR.		476) γ Centauri Dekl.		478) 76 Ursae maj. AR.		478) 76 Ursae maj. Dekl.		481) β Crucis AR.		481) β Crucis Dekl.	
	$12^h\ 32^m$		−68° 41′		$12^h\ 37^m$		−48° 30′		$12^h\ 38^m$		+63° 8′		$12^h\ 42^m$		−59° 14′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.7	22.14	73	9.90	163	3.832	447	46.22	192	2.39	58	62.42	98	60.085	554	35.41	167
10.7	22.87	69	11.53	215	4.279	427	48.14	229	2.97	57	61.44	34	60.639	528	37.08	214
20.7	23.56	64	13.68	260	4.706	393	50.43	260	3.54	54	61.10	30	61.167	491	39.22	253
30.7	24.20	56	16.28	297	5.099	352	53.03	283	4.08	48	61.40	91	61.658	440	41.75	285
Feb. 9.6	24.76	48	19.25	326	5.451	303	55.86	298	4.56	42	62.31	148	62.098	382	44.60	310
19.6	25.24	40	22.51	346	5.754	252	58.84	305	4.98	35	63.79	198	62.480	319	47.70	325
März 1.6	25.64	30	25.97	357	6.006	197	61.89	306	5.33	25	65.77	238	62.799	252	50.95	333
11.6	25.94	21	29.54	361	6.203	145	64.95	299	5.58	16	68.15	267	63.051	186	54.28	334
21.5	26.15	11	33.15	356	6.348	93	67.94	288	5.74	8	70.82	286	63.237	121	57.62	327
31.5	26.26	4	36.71	344	6.441	46	70.82	270	5.82	2	73.68	292	63.358	59	60.89	314
Apr. 10.5	26.30	6	40.15	326	6.487	2	73.52	248	5.80	9	76.60	287	63.417	0	64.03	294
20.4	26.24	13	43.41	300	6.489	40	76.00	222	5.71	16	79.47	272	63.417	54	66.97	270
30.4	26.11	20	46.41	268	6.449	75	78.22	192	5.55	23	82.19	246	63.363	105	69.67	240
Mai 10.4	25.91	27	49.09	233	6.374	108	80.14	158	5.32	28	84.65	213	63.258	151	72.07	206
20.4	25.64	32	51.42	190	6.266	137	81.72	123	5.04	32	86.78	174	63.107	191	74.13	168
30.3	25.32	38	53.32	145	6.129	161	82.95	85	4.72	35	88.52	128	62.916	227	75.81	125
Juni 9.3	24.94	41	54.77	97	5.968	181	83.80	45	4.37	37	89.80	80	62.689	255	77.06	82
19.3	24.53	43	55.74	46	5.787	195	84.25	4	4.00	37	90.60	31	62.434	278	77.88	35
29.3	24.10	46	56.20	6	5.592	205	84.29	37	3.63	38	90.91	22	62.156	291	78.23	13
Juli 9.2	23.64	45	56.14	58	5.387	208	83.92	76	3.25	36	90.69	71	61.865	297	78.10	58
19.2	23.19	44	55.56	108	5.179	203	83.16	114	2.89	35	89.98	120	61.568	293	77.52	104
29.2	22.75	42	54.48	155	4.976	192	82.02	147	2.54	31	88.78	167	61.275	277	76.48	146
Aug. 8.1	22.33	36	52.93	196	4.784	172	80.55	178	2.23	29	87.11	209	60.998	250	75.02	184
18.1	21.97	31	50.97	233	4.612	143	78.77	201	1.94	23	85.02	249	60.748	211	73.18	214
28.1	21.66	23	48.64	261	4.469	105	76.76	218	1.71	19	82.53	283	60.537	162	71.04	240
Sept. 7.1	21.43	13	46.03	280	4.364	58	74.58	227	1.52	13	79.70	313	60.375	100	68.64	256
17.0	21.30	4	43.23	288	4.306	4	72.31	226	1.39	6	76.57	336	60.275	29	66.08	262
27.0	21.26	8	40.35	286	4.302	55	70.05	216	1.33	1	73.21	353	60.246	49	63.46	258
Okt. 7.0	21.34	19	37.49	272	4.357	121	67.89	197	1.34	9	69.68	363	60.295	132	60.88	243
17.0	21.53	31	34.77	246	4.478	186	65.92	168	1.43	17	66.05	365	60.427	217	58.45	218
26.9	21.84	42	32.31	211	4.664	251	64.24	132	1.60	26	62.40	358	60.644	300	56.27	183
Nov. 5.9	22.26	52	30.20	164	4.915	311	62.92	87	1.86	33	58.82	344	60.944	376	54.44	140
15.9	22.78	61	28.56	113	5.226	363	62.05	40	2.19	41	55.38	318	61.320	443	53.04	89
25.8	23.39	67	27.43	55	5.589	406	61.65	12	2.60	47	52.20	285	61.763	496	52.15	35
Dez. 5.8	24.06	72	26.88	6	5.995	434	61.77	65	3.07	52	49.35	241	62.259	533	51.80	22
15.8	24.78	73	26.94	68	6.429	449	62.42	116	3.59	57	46.94	191	62.792	554	52.02	79
25.8	25.51	74	27.62	126	6.878	450	63.58	163	4.16	58	45.03	134	63.346	556	52.81	134
35.7	26.25		28.88		7.328		65.21		4.74		43.69		63.902		54.15	
Mittl. Ort	20.32		22.23		2.477		54.51		1.96		87.34		58.624		46.27	
sec δ, tg δ	2.752		−2.563		1.510		−1.131		2.215		+1.976		1.956		−1.680	

Mittlere Zeit Greenw.	482) *n* Centauri AR.	Δ	Dekl.	Δ	483) ε Ursae maj. AR.	Δ	Dekl.	Δ	484) δ Virginis AR.	Δ	Dekl.	Δ	485) 12 Can. ven. sq. AR.	Δ	Dekl.	Δ
	$12^h 48^m$		$-39° 44'$		$12^h 50^m$		$+56° 23'$		$12^h 51^m$		$+3° 49'$		$12^h 52^m$		$+38° 44'$	
1919	s		"		s		"		s		"		s		"	
Jan. 0.8	57.815	403	13.28	191	28.629	495	33.69	128	32.276	328	65.72	206	15.144	384	60.34	165
10.7	58.218	388	15.19	220	29.124	488	32.41	67	32.604	318	63.66	190	15.528	376	58.69	116
20.7	58.606	361	17.39	244	29.612	462	31.74	6	32.922	298	61.76	168	15.904	355	57.53	64
30.7	58.967	326	19.83	261	30.074	423	31.68	56	33.220	271	60.08	143	16.259	324	56.89	9
Feb. 9.6	59.293	285	22.44	270	30.497	370	32.24	113	33.491	237	58.65	113	16.583	284	56.80	43
19.6	59.578	240	25.14	273	30.867	307	33.37	165	33.728	200	57.52	82	16.867	238	57.23	91
März 1.6	59.818	194	27.87	268	31.174	238	35.02	209	33.928	161	56.70	51	17.105	188	58.14	134
11.6	60.012	148	30.55	260	31.412	166	37.11	242	34.089	122	56.19	22	17.293	137	59.48	169
21.5	60.160	104	33.15	245	31.578	93	39.53	266	34.211	85	55.97	4	17.430	86	61.17	197
31.5	60.264	62	35.60	228	31.671	22	42.19	277	34.296	52	56.01	27	17.516	38	63.14	214
Apr. 10.5	60.326	24	37.88	206	31.693	42	44.96	279	34.348	20	56.28	45	17.554	5	65.28	222
20.5	60.350	11	39.94	182	31.651	101	47.75	268	34.368	8	56.73	60	17.549	44	67.50	222
30.4	60.339	43	41.76	154	31.550	153	50.43	249	34.360	30	57.33	71	17.505	78	69.72	212
Mai 10.4	60.296	71	43.30	126	31.397	196	52.92	222	34.330	52	58.04	78	17.427	107	71.84	196
20.4	60.225	96	44.56	95	31.201	230	55.14	187	34.278	68	58.82	80	17.320	129	73.80	172
30.3	60.129	118	45.51	63	30.971	257	57.01	147	34.210	83	59.62	81	17.191	148	75.52	145
Juni 9.3	60.011	137	46.14	29	30.714	276	58.48	103	34.127	94	60.43	78	17.043	162	76.97	112
19.3	59.874	151	46.43	5	30.438	287	59.51	56	34.033	103	61.21	74	16.881	170	78.09	78
29.3	59.723	162	46.38	39	30.151	290	60.07	8	33.930	109	61.95	68	16.711	175	78.87	40
Juli 9.2	59.561	167	45.99	72	29.861	285	60.15	39	33.821	112	62.63	59	16.536	174	79.27	2
19.2	59.394	166	45.27	102	29.576	276	59.76	88	33.709	112	63.22	49	16.362	170	79.29	36
29.2	59.228	159	44.25	130	29.300	257	58.88	133	33.597	107	63.71	38	16.192	161	78.93	75
Aug. 8.2	59.069	146	42.95	154	29.043	232	57.55	176	33.490	97	64.09	24	16.031	146	78.18	111
18.1	58.923	123	41.41	172	28.811	201	55.79	216	33.393	84	64.33	8	15.885	126	77.07	147
28.1	58.800	94	39.69	185	28.610	162	53.63	253	33.309	63	64.41	9	15.759	100	75.60	181
Sept. 7.1	58.706	56	37.84	190	28.448	116	51.10	284	33.246	38	64.32	29	15.659	68	73.79	211
17.0	58.650	11	35.94	187	28.332	62	48.26	312	33.208	7	64.03	51	15.591	30	71.68	240
27.0	58.639	39	34.07	176	28.270	4	45.14	332	33.201	30	63.52	74	15.561	14	69.28	265
Okt. 7.0	58.678	95	32.31	156	28.266	61	41.82	347	33.231	71	62.78	99	15.575	61	66.63	284
17.0	58.773	154	30.75	130	28.327	130	38.35	354	33.302	114	61.79	125	15.636	113	63.79	299
26.9	58.927	211	29.45	94	28.457	199	34.81	354	33.416	159	60.54	148	15.749	166	60.80	308
Nov. 5.9	59.138	265	28.51	55	28.656	269	31.27	344	33.575	203	59.06	172	15.915	218	57.72	309
15.9	59.403	314	27.96	10	28.925	333	27.83	326	33.778	243	57.34	190	16.133	267	54.63	303
25.9	59.717	353	27.86	35	29.258	391	24.57	297	34.021	277	55.44	205	16.400	310	51.60	287
Dez. 5.8	60.070	383	28.21	82	29.649	438	21.60	261	34.298	303	53.39	214	16.710	344	48.73	264
15.8	60.453	399	29.03	127	30.087	472	18.99	215	34.601	320	51.25	216	17.054	369	46.09	232
25.8	60.852	404	30.30	166	30.559	491	16.84	163	34.921	327	49.09	211	17.423	381	43.77	192
35.7	61.256		31.96		31.050		15.21		35.248		46.98		17.804		41.85	
Mittl Ort	56.621		19.39		28.226		57.27		31.356		74.27		14.490		79.97	
sec δ, tg δ	1.300		−0.831		1.807		+1.505		1.002		+0.067		1.282		+0.803	

Mittlere Zeit Greenw.	486) 8 Draconis AR.		486) 8 Draconis Dekl.		488) ε Virginis AR.		488) ε Virginis Dekl.		490) ϑ Virginis AR.		490) ϑ Virginis Dekl.		492) 43 Comae AR.		492) 43 Comae Dekl.	
	$12^h 52^m$		+65° 51′		$12^h 58^m$		+11° 23′		$13^h 5^m$		−5° 6′		$13^h 8^m$		+28° 16′	
1919 Jan. 0.8	15.43 s	64	74.66″	109	9.522 s	331	28.15″	202	46.143 s	332	30.02″	205	6.332 s	351	62.03″	191
10.7	16.07	62	73.57	44	9.853	323	26.13	179	46.475	323	32.07	201	6.683	346	60.12	149
20.7	16.69	59	73.13	21	10.176	304	24.34	149	46.798	305	34.08	188	7.029	330	58.63	104
30.7	17.28	55	73.34	84	10.480	278	22.85	116	47.103	280	35.96	171	7.359	303	57.59	57
Feb. 9.7	17.83	47	74.18	143	10.758	245	21.69	80	47.383	248	37.67	150	7.662	270	57.02	9
19.6	18.30	40	75.61	195	11.003	208	20.89	45	47.631	213	39.17	125	7.932	231	56.93	38
März 1.6	18.70	30	77.56	238	11.211	169	20.44	9	47.844	176	40.42	99	8.163	188	57.31	79
11.6	19.00	21	79.94	270	11.380	129	20.35	22	48.020	139	41.41	73	8.351	144	58.10	117
21.5	19.21	11	82.64	292	11.509	91	20.57	50	48.159	102	42.14	49	8.495	101	59.27	146
31.5	19.32	1	85.56	300	11.600	56	21.07	73	48.261	69	42.63	26	8.596	60	60.73	169
Apr. 10.5	19.33	8	88.56	297	11.656	23	21.80	90	48.330	39	42.89	5	8.656	22	62.42	183
20.5	19.25	17	91.53	284	11.679	5	22.70	102	48.369	10	42.94	12	8.678	13	64.25	189
30.4	19.08	23	94.37	259	11.674	30	23.72	109	48.379	14	42.82	27	8.665	42	66.14	187
Mai 10.4	18.85	30	96.96	227	11.644	52	24.81	111	48.365	36	42.55	39	8.623	69	68.01	180
20.4	18.55	35	99.23	188	11.592	70	25.92	108	48.329	55	42.16	48	8.554	91	69.81	165
30.4	18.20	39	101.11	144	11.522	86	27.00	103	48.274	72	41.68	56	8.463	110	71.46	146
Juni 9.3	17.81	41	102.55	94	11.436	97	28.03	93	48.202	86	41.12	62	8.353	124	72.92	122
19.3	17.40	43	103.49	44	11.339	108	28.96	82	48.116	97	40.50	64	8.229	136	74.14	96
29.3	16.97	43	103.93	9	11.231	114	29.78	68	48.019	106	39.86	67	8.093	143	75.10	67
Juli 9.2	16.54	42	103.84	60	11.117	117	30.46	52	47.913	112	39.19	67	7.950	148	75.77	37
19.2	16.12	41	103.24	111	11.000	117	30.98	35	47.801	115	38.52	65	7.802	147	76.14	4
29.2	15.71	38	102.13	159	10.883	114	31.33	16	47.686	112	37.87	61	7.655	143	76.18	27
Aug. 8.2	15.33	35	100.54	204	10.769	104	31.49	3	47.574	105	37.26	55	7.512	133	75.91	60
18.1	14.98	30	98.50	245	10.665	91	31.46	24	47.469	93	36.71	47	7.379	119	75.31	92
28.1	14.68	24	96.05	282	10.574	72	31.22	46	47.376	74	36.24	35	7.260	98	74.39	123
Sept. 7.1	14.44	18	93.23	312	10.502	46	30.76	70	47.302	49	35.89	20	7.162	72	73.16	153
17.1	14.26	11	90.11	338	10.456	15	30.06	94	47.253	19	35.69	2	7.090	38	71.63	182
27.0	14.15	3	86.73	357	10.441	21	29.12	118	47.234	19	35.67	19	7.052	1	69.81	208
Okt. 7.0	14.12	5	83.16	369	10.462	62	27.94	143	47.253	60	35.86	43	7.053	43	67.73	232
17.0	14.17	14	79.47	372	10.524	106	26.51	167	47.313	104	36.29	69	7.096	92	65.41	251
26.9	14.31	24	75.75	367	10.630	152	24.84	188	47.417	151	36.98	96	7.188	140	62.90	268
Nov. 5.9	14.55	32	72.08	353	10.782	196	22.96	207	47.568	196	37.94	123	7.328	189	60.22	276
15.9	14.87	41	68.55	329	10.978	237	20.89	221	47.764	237	39.17	147	7.517	235	57.46	280
25.9	15.28	49	65.26	296	11.215	273	18.68	229	48.001	273	40.64	170	7.752	276	54.66	274
Dez. 5.8	15.77	55	62.30	254	11.488	301	16.39	231	48.274	301	42.34	188	8.028	310	51.92	262
15.8	16.32	59	59.76	203	11.789	321	14.08	225	48.575	320	44.22	199	8.338	334	49.30	239
25.8	16.91	62	57.73	145	12.110	328	11.83	213	48.895	329	46.21	205	8.672	347	46.91	211
35.8	17.53		56.28		12.438		9.70		49.224		48.26		9.019		44.80	
Mittl. Ort	15.35		99.62		8.689		39.19		45.256		24.93		5.699		78.28	
sec δ, tg δ	2.447		+2.233		1.020		+0.202		1.004		−0.089		1.136		+0.538	

Mittlere Zeit Greenw.	495) γ Hydrae AR.		Dekl.		496) ι Centauri AR.		Dekl.		497) ζ Ursae maj. pr. AR.		Dekl.		498) α Virginis AR.		Dekl.	
1919	13h 14m		−22° 44′		13h 16m		−36° 17′		13h 20m		+55° 20′		13h 20m		−10° 44′	
Jan. 0.8	31.809 s	355	39.51″	189	3.230 s	393	2.12″	169	40.078 s	476	30.52″	164	56.231 s	336	22.98″	198
10.7	32.164	346	41.40	204	3.623	383	3.81	197	40.554	479	28.88	105	56.567	330	24.96	200
20.7	32.510	327	43.44	211	4.006	364	5.78	220	41.033	464	27.83	43	56.897	314	26.96	194
30.7	32.837	302	45.55	213	4.370	335	7.98	234	41.497	435	27.40	21	57.211	291	28.90	183
Feb. 9.7	33.139	270	47.68	208	4.705	300	10.32	243	41.932	391	27.61	82	57.502	261	30.73	167
19.6	33.409	235	49.76	199	5.005	260	12.75	245	42.323	338	28.43	138	57.763	227	32.40	148
März 1.6	33.644	196	51.75	185	5.265	219	15.20	242	42.661	276	29.81	187	57.990	192	33.88	125
11.6	33.840	158	53.60	168	5.484	177	17.62	234	42.937	210	31.68	227	58.182	156	35.13	103
21.6	33.998	121	55.28	150	5.661	135	19.96	221	43.147	141	33.95	257	58.338	120	36.16	80
31.5	34.119	86	56.78	131	5.796	96	22.17	205	43.288	73	36.52	277	58.458	87	36.96	58
Apr. 10.5	34.205	53	58.09	110	5.892	59	24.22	188	43.361	9	39.29	284	58.545	56	37.54	37
20.5	34.258	23	59.19	90	5.951	24	26.10	167	43.370	51	42.13	281	58.601	27	37.91	19
30.4	34.281	4	60.09	70	5.975	8	27.77	143	43.319	105	44.94	268	58.628	1	38.10	2
Mai 10.4	34.277	29	60.79	50	5.967	38	29.20	119	43.214	153	47.62	246	58.629	23	38.12	12
20.4	34.248	51	61.29	29	5.929	65	30.39	92	43.061	193	50.08	216	58.606	43	38.00	25
30.4	34.197	72	61.58	9	5.864	90	31.31	64	42.868	227	52.24	180	58.563	63	37.75	36
Juni 9.3	34.125	90	61.67	10	5.774	112	31.95	36	42.641	253	54.04	139	58.500	80	37.39	45
19.3	34.035	105	61.57	28	5.662	131	32.31	6	42.388	272	55.43	94	58.420	94	36.94	54
29.3	33.930	117	61.29	47	5.531	146	32.37	24	42.116	284	56.37	46	58.326	106	36.40	60
Juli 9.3	33.813	126	60.82	64	5.385	156	32.13	53	41.832	289	56.83	2	58.220	115	35.80	66
19.2	33.687	130	60.18	79	5.229	161	31.60	81	41.543	287	56.81	50	58.105	120	35.14	69
29.2	33.557	130	59.39	93	5.068	160	30.79	106	41.256	278	56.31	97	57.985	120	34.45	71
Aug. 8.2	33.427	123	58.46	102	4.908	153	29.73	129	40.978	260	55.34	144	57.865	115	33.74	70
18.1	33.304	111	57.44	109	4.755	137	28.44	147	40.718	236	53.90	187	57.750	105	33.04	66
28.1	33.193	90	56.35	111	4.618	113	26.97	159	40.482	204	52.03	226	57.645	87	32.38	59
Sept. 7.1	33.103	63	55.24	108	4.505	81	25.38	166	40.278	162	49.77	263	57.558	64	31.79	49
17.1	33.040	29	54.16	100	4.424	40	23.72	166	40.116	114	47.14	294	57.494	32	31.30	34
27.0	33.011	11	53.16	85	4.384	6	22.06	158	40.002	59	44.20	321	57.462	4	30.96	15
Okt. 7.0	33.022	58	52.31	65	4.390	60	20.48	142	39.943	4	40.99	340	57.466	47	30.81	6
17.0	33.080	106	51.66	40	4.450	116	19.06	118	39.947	71	37.59	354	57.513	92	30.87	32
27.0	33.186	157	51.26	11	4.566	172	17.88	90	40.018	141	34.05	359	57.605	140	31.19	59
Nov. 5.9	33.343	206	51.15	23	4.738	228	16.98	53	40.159	213	30.46	355	57.745	186	31.78	88
15.9	33.549	250	51.38	56	4.966	279	16.45	14	40.372	280	26.91	343	57.931	231	32.66	115
25.9	33.799	290	51.94	91	5.245	323	16.31	28	40.652	343	23.48	321	58.162	268	33.81	142
Dez. 5.8	34.089	321	52.85	123	5.568	356	16.59	70	40.995	397	20.27	288	58.430	299	35.23	164
15.8	34.410	341	54.08	152	5.924	378	17.29	110	41.392	439	17.39	247	58.729	320	36.87	181
25.8	34.751	350	55.60	176	6.302	389	18.39	147	41.831	467	14.92	197	59.049	332	38.68	193
35.8	35.101		57.36		6.691		19.86		42.298		12.95		59.381		40.61	
Mittl. Ort	30.873		40.71		2.228		7.64		40.034		52.95		55.398		20.20	
sec δ, tg δ	1.084		−0.419		1.240		−0.734		1.759		+1.447		1.018		−0.190	

Mittlere Zeit Greenw.	499) Gr. 2001 AR.	Δ	499) Dekl.	Δ	500) 69 H. Urs. maj. AR.	Δ	500) Dekl.	Δ	501) ζ Virginis AR.	Δ	501) Dekl.	Δ	502) 17 H. can. ven. AR.	Δ	502) Dekl.	Δ
1919	13h 24m		+72° 48′		13h 25m		+60° 21′		13h 30m		−0° 10′		13h 31m		+37° 35′	
Jan. 0.8	2.91s	80	18.09″	134	28.66s	53	26.77″	160	34.578s	328	62.37″	204	11.223s	374	30.99″	199
10.8	3.71	83	16.75	68	29.19	53	25.17	99	34.906	324	64.41	193	11.597	374	29.00	151
20.7	4.54	80	16.07	2	29.72	52	24.18	34	35.230	311	66.34	177	11.971	363	27.49	99
30.7	5.34	76	16.05	66	30.24	49	23.84	30	35.541	290	68.11	155	12.334	341	26.50	44
Feb. 9.7	6.10	69	16.71	128	30.73	45	24.14	93	35.831	263	69.66	129	12.675	309	26.06	10
19.6	6.79	60	17.99	185	31.18	38	25.07	150	36.094	230	70.95	101	12.984	270	26.16	63
März 1.6	7.39	48	19.84	233	31.56	31	26.57	200	36.324	196	71.96	71	13.254	227	26.79	112
11.6	7.87	36	22.17	272	31.87	24	28.57	241	36.520	160	72.67	43	13.481	180	27.91	152
21.6	8.23	22	24.89	298	32.11	16	30.98	271	36.680	126	73.10	16	13.661	133	29.43	187
31.5	8.45	9	27.87	312	32.27	9	33.69	290	36.806	91	73.26	8	13.794	87	31.30	211
Apr. 10.5	8.54	4	30.99	315	32.36	0	36.59	297	36.897	61	73.18	28	13.881	43	33.41	226
20.5	8.50	16	34.14	305	32.36	6	39.56	293	36.958	32	72.90	44	13.924	2	35.67	233
30.5	8.34	29	37.19	285	32.30	13	42.49	279	36.990	6	72.46	58	13.926	35	38.00	229
Mai 10.4	8.05	37	40.04	255	32.17	18	45.28	254	36.996	19	71.88	67	13.891	68	40.29	219
20.4	7.68	47	42.59	218	31.99	24	47.82	224	36.977	40	71.21	73	13.823	96	42.48	200
30.4	7.21	54	44.77	175	31.75	28	50.06	185	36.937	59	70.48	76	13.727	121	44.48	176
Juni 9.3	6.67	59	46.52	126	31.47	30	51.91	141	36.878	77	69.72	76	13.606	142	46.24	147
19.3	6.08	63	47.78	74	31.17	33	53.32	94	36.801	92	68.96	75	13.464	159	47.71	113
29.3	5.45	64	48.52	21	30.84	34	54.26	45	36.709	105	68.21	71	13.305	171	48.84	77
Juli 9.3	4.81	65	48.73	34	30.50	35	54.71	5	36.604	113	67.50	67	13.134	179	49.61	39
19.2	4.16	65	48.39	86	30.15	35	54.66	56	36.491	120	66.83	59	12.955	182	50.00	1
29.2	3.51	62	47.53	139	29.80	34	54.10	105	36.371	122	66.24	50	12.773	180	50.01	39
Aug. 8.2	2.89	58	46.14	186	29.46	32	53.05	153	36.249	118	65.74	40	12.593	173	49.62	78
18.2	2.31	53	44.28	231	29.14	29	51.52	197	36.131	109	65.34	27	12.420	159	48.84	117
28.1	1.78	45	41.97	272	28.85	25	49.55	238	36.022	94	65.07	13	12.261	138	47.67	153
Sept. 7.1	1.33	38	39.25	307	28.60	21	47.17	275	35.928	71	64.94	5	12.123	112	46.14	188
17.1	0.95	29	36.18	336	28.39	15	44.42	307	35.857	43	64.99	24	12.011	77	44.26	220
27.0	0.66	18	32.82	359	28.24	8	41.35	333	35.814	7	65.23	47	11.934	37	42.06	248
Okt. 7.0	0.48	7	29.23	374	28.16	2	38.02	352	35.807	33	65.70	70	11.897	11	39.58	274
17.0	0.41	5	25.49	381	28.14	6	34.50	364	35.840	77	66.40	94	11.908	61	36.84	294
27.0	0.46	18	21.68	380	28.20	13	30.86	369	35.917	124	67.34	120	11.969	116	33.90	308
Nov. 5.9	0.64	31	17.88	369	28.33	22	27.17	364	36.041	170	68.54	144	12.085	170	30.82	316
15.9	0.95	43	14.19	349	28.55	30	23.53	349	36.211	214	69.98	166	12.255	223	27.66	315
25.9	1.38	55	10.70	317	28.85	37	20.04	325	36.425	254	71.64	184	12.478	271	24.51	305
Dez. 5.9	1.93	65	7.53	277	29.22	43	16.79	290	36.679	285	73.48	198	12.749	313	21.46	288
15.8	2.58	72	4.76	228	29.65	48	13.89	247	36.964	309	75.46	205	13.062	344	18.58	260
25.8	3.30	79	2.48	171	30.13	51	11.42	195	37.273	321	77.51	206	13.406	364	15.98	223
35.8	4.09		0.77		30.64		9.47		37.594		79.57		13.770		13.75	
Mittl. Ort	4.02		42.66		28.87		49.85		33.864		56.13		10.891		49.09	
sec δ, tg δ	3.384		+3.233		2.022		+1.758		1.000		−0.003		1.262		+0.770	

Mittlere Zeit Greenw.	504) ε Centauri				507) τ Bootis				509) η Ursae maj.				510) 89 Virginis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	13h 34m		−53° 3′		13h 43m		+17° 51′		13h 44m		+49° 42′		13h 45m		−17° 43′	
Jan. 0.8	45.662	498	8.38	113	25.269	330	23.84	213	21.014	424	41.19	197	28.769	343	52.08	178
10.8	46.160	492	9.51	157	25.599	331	21.71	184	21.438	430	39.22	142	29.112	342	53.86	188
20.7	46.652	472	11.08	195	25.930	322	19.87	149	21.868	424	37.80	82	29.454	329	55.74	190
30.7	47.124	442	13.03	227	26.252	303	18.38	109	22.292	403	36.98	21	29.783	310	57.64	187
Feb. 9.7	47.566	402	15.30	252	26.555	277	17.29	67	22.695	370	36.77	41	30.093	284	59.51	180
19.7	47.968	356	17.82	271	26.832	245	16.62	24	23.065	327	37.18	99	30.377	252	61.31	167
März 1.6	48.324	306	20.53	282	27.077	210	16.38	16	23.392	277	38.17	152	30.629	219	62.98	151
11.6	48.630	254	23.35	288	27.287	173	16.54	53	23.669	222	39.69	196	30.848	185	64.49	133
21.6	48.884	202	26.23	286	27.460	136	17.07	87	23.891	165	41.65	232	31.033	149	65.82	114
31.5	49.086	150	29.09	280	27.596	100	17.94	113	24.056	107	43.97	257	31.182	116	66.96	95
Apr. 10.5	49.236	100	31.89	268	27.696	65	19.07	134	24.163	51	46.54	272	31.298	85	67.91	75
20.5	49.336	50	34.57	251	27.761	34	20.41	147	24.214	2	49.26	276	31.383	55	68.66	58
30.5	49.386	3	37.08	231	27.795	3	21.88	154	24.212	51	52.02	271	31.438	26	69.24	40
Mai 10.4	49.389	41	39.39	205	27.798	23	23.42	154	24.161	95	54.73	255	31.464	0	69.64	24
20.4	49.348	84	41.44	175	27.775	47	24.96	150	24.066	134	57.28	232	31.464	25	69.88	9
30.4	49.264	122	43.19	143	27.728	69	26.46	140	23.932	168	59.60	200	31.439	48	69.97	6
Juni 9.4	49.142	159	44.62	107	27.659	89	27.86	126	23.764	196	61.60	165	31.391	69	69.91	19
19.3	48.983	190	45.69	68	27.570	105	29.12	109	23.568	219	63.25	125	31.322	89	69.72	32
29.3	48.793	215	46.37	29	27.465	119	30.21	89	23.349	236	64.50	82	31.233	105	69.40	45
Juli 9.3	48.578	234	46.66	13	27.346	130	31.10	66	23.113	247	65.32	36	31.128	118	68.95	56
19.2	48.344	245	46.53	54	27.216	137	31.76	42	22.866	251	65.68	11	31.010	129	68.39	65
29.2	48.099	248	45.99	94	27.079	139	32.18	16	22.615	250	65.57	57	30.881	132	67.74	74
Aug. 8.2	47.851	239	45.05	130	26.940	137	32.34	9	22.365	242	65.00	102	30.749	132	67.00	79
18.2	47.612	220	43.75	164	26.803	128	32.25	36	22.123	226	63.98	147	30.617	124	66.21	83
28.1	47.392	189	42.11	191	26.675	114	31.89	65	21.897	201	62.51	188	30.493	109	65.38	82
Sept. 7.1	47.203	148	40.20	213	26.561	93	31.24	91	21.696	170	60.63	226	30.384	87	64.56	78
17.1	47.055	94	38.07	225	26.468	65	30.33	119	21.526	130	58.37	261	30.297	57	63.78	70
27.1	46.961	31	35.82	230	26.403	30	29.14	147	21.396	82	55.76	292	30.240	20	63.08	56
Okt. 7.0	46.930	38	33.52	224	26.373	11	27.67	173	21.314	28	52.84	317	30.220	23	62.52	38
17.0	46.968	114	31.28	209	26.384	55	25.94	197	21.286	33	49.67	335	30.243	71	62.14	16
27.0	47.082	189	29.19	185	26.439	103	23.97	218	21.319	96	46.32	348	30.314	120	61.98	11
Nov. 5.9	47.271	264	27.34	151	26.542	152	21.79	237	21.415	162	42.84	351	30.434	171	62.09	39
15.9	47.535	332	25.83	111	26.694	199	19.42	248	21.577	226	39.33	345	30.605	218	62.48	68
25.9	47.867	391	24.72	66	26.893	240	16.94	254	21.803	286	35.88	331	30.823	260	63.16	98
Dez. 5.9	48.258	438	24.06	17	27.133	277	14.40	253	22.089	338	32.57	305	31.083	295	64.14	125
15.8	48.696	471	23.89	34	27.410	305	11.87	244	22.427	380	29.52	271	31.378	320	65.39	149
25.8	49.167	490	24.23	82	27.715	322	9.43	227	22.807	410	26.81	227	31.698	336	66.88	167
35.8	49.657		25.05		28.037		7.16		23.217		24.54		32.034		68.55	
Mittl. Ort	44.690		18.52		24.777		35.76		21.068		61.56		28.034		52.16	
sec δ, tg δ	1.664		−1.330		1.051		+0.322		1.547		+1.180		1.050		−0.320	

Mittlere Zeit Greenw.	512) ζ Centauri AR.		Dekl.		513) η Bootis AR.		Dekl.		517) 11 Bootis AR.		Dekl.		516) τ Virginis AR.		Dekl.	
1919	13h 50m		−46° 53′		13h 50m		+18° 47′		13h 57m		+27° 46′		13h 57m		+1° 55′	
Jan. 0.8	29.480	449	16.15	110	50.115	330	59.69	216	30.442	340	23.82	221	31.923	323	62.99	203
10.8	29.929	447	17.25	147	50.445	332	57.53	187	30.782	346	21.61	182	32.246	325	60.96	192
20.8	30.376	432	18.72	182	50.777	324	55.66	151	31.128	339	19.79	138	32.571	316	59.04	173
30.7	30.808	409	20.54	208	51.101	308	54.15	111	31.467	323	18.41	91	32.887	301	57.31	149
Feb. 9.7	31.217	376	22.62	230	51.409	282	53.04	67	31.790	299	17.50	40	33.188	277	55.82	122
19.7	31.593	338	24.92	245	51.691	252	52.37	24	32.089	268	17.10	10	33.465	249	54.60	91
März 1.6	31.931	295	27.37	254	51.943	217	52.13	17	32.357	232	17.20	56	33.714	217	53.69	60
11.6	32.226	251	29.91	256	52.160	181	52.30	56	32.589	194	17.76	100	33.931	185	53.09	29
21.6	32.477	205	32.47	255	52.341	145	52.86	90	32.783	155	18.76	135	34.116	150	52.80	2
31.6	32.682	161	35.02	247	52.486	108	53.76	118	32.938	115	20.11	165	34.266	119	52.78	24
Apr. 10.5	32.843	117	37.49	236	52.594	73	54.94	139	33.053	77	21.76	186	34.385	87	53.02	45
20.5	32.960	74	39.85	221	52.667	41	56.33	152	33.130	41	23.62	199	34.472	57	53.47	62
30.5	33.034	32	42.06	202	52.708	11	57.85	160	33.171	7	25.61	203	34.529	30	54.09	75
Mai 10.5	33.066	8	44.08	180	52.719	17	59.45	161	33.178	23	27.64	201	34.559	4	54.84	83
20.4	33.058	46	45.88	154	52.702	43	61.06	155	33.155	52	29.65	191	34.563	21	55.67	88
30.4	33.012	81	47.42	126	52.659	65	62.61	146	33.103	77	31.56	175	34.542	42	56.55	90
Juni 9.4	32.931	116	48.68	95	52.594	85	64.07	131	33.026	99	33.31	154	34.500	64	57.45	88
19.3	32.815	145	49.63	62	52.509	104	65.38	113	32.927	120	34.85	130	34.436	83	58.33	83
29.3	32.670	172	50.25	27	52.405	118	66.51	91	32.807	136	36.15	101	34.353	99	59.16	78
Juli 9.3	32.498	192	50.52	9	52.287	130	67.42	69	32.671	149	37.16	71	34.254	113	59.94	70
19.3	32.306	206	50.43	46	52.157	139	68.11	44	32.522	158	37.87	38	34.141	123	60.64	60
29.2	32.100	212	49.97	80	52.018	143	68.55	17	32.364	162	38.25	5	34.018	129	61.24	49
Aug. 8.2	31.888	210	49.17	113	51.875	140	68.72	9	32.202	161	38.30	29	33.889	129	61.73	36
18.2	31.678	198	48.04	142	51.735	134	68.63	38	32.041	153	38.01	64	33.760	124	62.09	22
28.1	31.480	174	46.62	167	51.601	120	68.25	66	31.888	139	37.37	98	33.636	113	62.31	5
Sept. 7.1	31.306	141	44.95	186	51.481	99	67.59	95	31.749	118	36.39	131	33.523	93	62.36	13
17.1	31.165	97	43.09	197	51.382	72	66.64	123	31.631	90	35.08	163	33.430	66	62.23	33
27.1	31.068	45	41.12	201	51.310	38	65.41	150	31.541	55	33.45	193	33.364	34	61.90	56
Okt. 7.0	31.023	17	39.11	196	51.272	3	63.91	178	31.486	12	31.52	221	33.330	5	61.34	78
17.0	31.040	83	37.15	182	51.275	48	62.13	202	31.474	34	29.31	245	33.335	50	60.56	103
27.0	31.123	151	35.33	161	51.323	95	60.11	223	31.508	85	26.86	266	33.385	96	59.53	128
Nov. 6.0	31.274	219	33.72	129	51.418	145	57.88	242	31.593	136	24.20	280	33.481	145	58.25	150
15.9	31.493	283	32.43	93	51.563	192	55.46	253	31.729	187	21.40	289	33.626	190	56.75	172
25.9	31.776	338	31.50	52	51.755	236	52.93	259	31.916	234	18.51	289	33.816	233	55.03	188
Dez. 5.9	32.114	384	30.98	7	51.991	273	50.34	258	32.150	274	15.62	281	34.049	269	53.15	201
15.8	32.498	418	30.91	38	52.264	302	47.76	248	32.424	307	12.81	265	34.318	296	51.14	207
25.8	32.916	437	31.29	82	52.566	321	45.28	231	32.731	330	10.16	239	34.614	314	49.07	207
35.8	33.353		32.11		52.887		42.97		33.061		7.77		34.928		47.00	
Mittl. Ort	28.648		24.92		49.679		71.65		30.161		38.19		31.376		69.25	
sec δ, tg δ	1.463		−1.068		1.056		+0.341		1.130		+0.527		1.001		+0.034	

Mittlere Zeit Greenw.	518) β Centauri				520) ϑ Centauri				521) α Draconis				522) d Bootis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$13^h\ 58^m$		$-59°\ 58'$		$14^h\ 1^m$		$-35°\ 58'$		$14^h\ 2^m$		$+64°\ 45'$		$14^h\ 6^m$		$+25°\ 28'$	
Jan. 0.8	$6^s.440$	578	$47''.18$	64	$55^s.262$	388	$13''.74$	126	$10^s.69$	57	$23''.80$	195	$42^s.580$	334	$15''.98$	225
10.8	7.018	580	47.82	113	55.650	390	15.00	155	11.26	59	21.85	134	42.914	340	13.73	189
20.8	7.598	566	48.95	157	56.040	381	16.55	179	11.85	59	20.51	69	43.254	335	11.84	147
30.7	8.164	539	50.52	197	56.421	360	18.34	195	12.44	57	19.82	2	43.589	322	10.37	101
Feb. 9.7	8.703	499	52.49	230	56.781	335	20.29	207	13.01	54	19.80	65	43.911	299	9.36	53
19.7	9.202	452	54.79	256	57.116	302	22.36	212	13.55	48	20.45	126	44.210	270	8.83	4
März 1.7	9.654	398	57.35	276	57.418	267	24.48	214	14.03	42	21.71	184	44.480	236	8.79	43
11.6	10.052	341	60.11	289	57.685	230	26.62	209	14.45	34	23.55	230	44.716	200	9.22	86
21.6	10.393	281	63.00	296	57.915	191	28.71	202	14.79	25	25.85	268	44.916	162	10.08	123
31.6	10.674	221	65.96	296	58.106	154	30.73	192	15.04	16	28.53	294	45.078	125	11.31	152
Apr. 10.5	10.895	159	68.92	291	58.260	117	32.65	178	15.20	8	31.47	309	45.203	88	12.83	176
20.5	11.054	99	71.83	280	58.377	82	34.43	163	15.28	1	34.56	311	45.291	52	14.59	189
30.5	11.153	40	74.63	264	58.459	47	36.06	145	15.27	9	37.67	304	45.343	20	16.48	197
Mai 10.5	11.193	19	77.27	243	58.506	13	37.51	126	15.18	17	40.71	285	45.363	11	18.45	196
20.4	11.174	74	79.70	216	58.519	18	38.77	105	15.01	23	43.56	258	45.352	40	20.41	188
30.4	11.100	128	81.86	185	58.501	49	39.82	83	14.78	30	46.14	222	45.312	66	22.29	174
Juni 9.4	10.972	178	83.71	149	58.452	79	40.65	59	14.48	34	48.36	182	45.246	89	24.03	156
19.4	10.794	221	85.20	111	58.373	105	41.24	33	14.14	38	50.18	136	45.157	110	25.59	133
29.3	10.573	260	86.31	70	58.268	129	41.57	7	13.76	42	51.54	86	45.047	129	26.92	107
Juli 9.3	10.313	289	87.01	25	58.139	148	41.64	20	13.34	43	52.40	34	44.918	142	27.99	78
19.3	10.024	310	87.26	20	57.991	163	41.44	46	12.91	44	52.74	17	44.776	154	28.77	47
29.2	9.714	319	87.06	64	57.828	172	40.98	71	12.47	44	52.57	70	44.622	159	29.24	15
Aug. 8.2	9.395	315	86.42	107	57.656	172	40.27	95	12.03	43	51.87	120	44.463	160	29.39	17
18.2	9.080	298	85.35	147	57.484	165	39.32	115	11.60	40	50.67	168	44.303	154	29.22	51
28.2	8.782	266	83.88	183	57.319	150	38.17	132	11.20	37	48.99	214	44.149	141	28.71	84
Sept. 7.1	8.516	220	82.05	213	57.169	123	36.85	144	10.83	33	46.85	255	44.008	122	27.87	116
17.1	8.296	160	79.92	234	57.046	89	35.41	149	10.50	27	44.30	292	43.886	96	26.71	148
27.1	8.136	88	77.58	246	56.957	47	33.92	148	10.23	20	41.38	323	43.790	61	25.23	179
Okt. 7.1	8.048	6	75.12	250	56.910	5	32.44	140	10.03	12	38.15	349	43.729	21	23.44	207
17.0	8.042	82	72.62	242	56.915	61	31.04	124	9.91	4	34.66	366	43.708	26	21.37	232
27.0	8.124	174	70.20	226	56.976	119	29.80	102	9.87	6	31.00	376	43.734	75	19.05	254
Nov. 6.0	8.298	265	67.94	197	57.095	178	28.78	74	9.93	15	27.24	376	43.809	126	16.51	270
15.9	8.563	350	65.97	162	57.273	235	28.04	41	10.08	24	23.48	367	43.935	177	13.81	281
25.9	8.913	425	64.35	120	57.508	284	27.63	5	10.32	33	19.81	349	44.112	224	11.00	283
Dez. 5.9	9.338	486	63.15	71	57.792	327	27.58	33	10.65	42	16.32	318	44.336	265	8.17	278
15.9	9.824	534	62.44	20	58.119	358	27.91	70	11.07	49	13.14	278	44.601	299	5.39	264
25.8	10.358	563	62.24	31	58.477	378	28.61	106	11.56	54	10.36	229	44.900	321	2.75	242
35.8	10.921		62.55		58.855		29.67		12.10		8.07		45.221		0.33	
Mittl. Ort	5.639		58.84		54.537		19.68		11.72		45.67		42.329		29.31	
sec δ, tg δ	1.999		−1.731		1.236		−0.726		2.346		+2.122		1.108		+0.476	

Mittlere Zeit Greenw.	523) κ Virginis AR.	Diff.	523) Dekl.	Diff.	524) 4 Ursae min. AR.	Diff.	524) Dekl.	Diff.	525) ι Virginis AR.	Diff.	525) Dekl.	Diff.	526) α Bootis AR.	Diff.	526) Dekl.	Diff.
1919	14h 8m		−9° 53′		14h 9m		+77° 55′		14h 11m		−5° 36′		14h 11m		+19° 35′	
Jan. 0.8	34.903	328	52.36	181	4.90	102	18.80	179	46.388	324	56.09	190	58.273	322	61.41	228
10.8	35.231	332	54.17	182	5.92	108	17.01	116	46.712	327	57.99	186	58.595	329	59.13	199
20.8	35.563	324	55.99	177	7.00	111	15.85	50	47.039	321	59.85	177	58.924	325	57.14	163
30.7	35.887	309	57.76	166	8.11	108	15.35	18	47.360	307	61.62	161	59.249	311	55.51	121
Feb. 9.7	36.196	288	59.42	151	9.19	103	15.53	85	47.667	286	63.23	141	59.560	291	54.30	78
19.7	36.484	261	60.93	131	10.22	93	16.38	148	47.953	260	64.64	118	59.851	264	53.52	33
März 1.7	36.745	230	62.24	110	11.15	81	17.86	203	48.213	230	65.82	92	60.115	232	53.19	12
11.6	36.975	199	63.34	87	11.96	66	19.89	248	48.443	198	66.74	67	60.347	198	53.31	51
21.6	37.174	166	64.21	64	12.62	47	22.37	285	48.641	167	67.41	42	60.545	162	53.82	88
31.6	37.340	135	64.85	43	13.09	30	25.22	309	48.808	136	67.83	19	60.707	127	54.70	117
Apr. 10.5	37.475	104	65.28	23	13.39	11	28.31	321	48.944	104	68.02	1	60.834	93	55.87	141
20.5	37.579	75	65.51	6	13.50	8	31.52	320	49.048	76	68.01	19	60.927	60	57.28	157
30.5	37.654	46	65.57	9	13.42	25	34.72	310	49.124	47	67.82	34	60.987	28	58.85	166
Mai 10.5	37.700	20	65.48	22	13.17	41	37.82	288	49.171	21	67.48	44	61.015	1	60.51	167
20.4	37.720	6	65.26	32	12.76	57	40.70	258	49.192	5	67.04	54	61.014	29	62.18	164
30.4	37.714	30	64.94	41	12.19	69	43.28	219	49.187	30	66.50	59	60.985	54	63.82	154
Juni 9.4	37.684	54	64.53	48	11.50	81	45.47	176	49.157	52	65.91	62	60.931	77	65.36	140
19.4	37.630	75	64.05	53	10.69	88	47.23	126	49.105	74	65.29	65	60.854	98	66.76	122
29.3	37.555	94	63.52	57	9.81	95	48.49	74	49.031	93	64.64	64	60.756	117	67.98	100
Juli 9.3	37.461	111	62.95	60	8.86	99	49.23	21	48.938	109	64.00	64	60.639	133	68.98	76
19.3	37.350	123	62.35	61	7.87	100	49.44	34	48.829	122	63.36	61	60.506	144	69.74	51
29.2	37.227	131	61.74	62	6.87	100	49.10	87	48.707	131	62.75	56	60.362	151	70.25	23
Aug. 8.2	37.096	134	61.12	60	5.87	97	48.23	138	48.576	134	62.19	51	60.211	153	70.48	6
18.2	36.962	131	60.52	56	4.90	92	46.85	187	48.442	131	61.68	43	60.058	149	70.42	35
28.2	36.831	119	59.96	50	3.98	85	44.98	232	48.311	120	61.25	33	59.909	138	70.07	64
Sept. 7.1	36.712	101	59.46	40	3.13	74	42.66	273	48.191	103	60.92	20	59.771	120	69.43	94
17.1	36.611	75	59.06	29	2.39	64	39.93	308	48.088	78	60.72	5	59.651	94	68.49	125
27.1	36.536	42	58.77	12	1.75	51	36.85	338	48.010	44	60.67	12	59.557	62	67.24	152
Okt. 7.1	36.494	1	58.65	6	1.24	35	33.47	360	47.966	6	60.79	33	59.495	23	65.72	181
17.0	36.493	44	58.71	29	0.89	18	29.87	375	47.960	38	61.12	56	59.472	22	63.91	205
27.0	36.537	92	59.00	52	0.71	1	26.12	381	47.998	87	61.68	80	59.494	70	61.86	229
Nov. 6.0	36.629	142	59.52	78	0.70	17	22.31	379	48.085	136	62.48	104	59.564	121	59.57	248
15.9	36.771	189	60.30	104	0.87	35	18.52	366	48.221	183	63.52	128	59.685	170	57.09	261
25.9	36.960	233	61.34	127	1.22	54	14.86	343	48.404	226	64.80	150	59.855	215	54.48	268
Dez. 5.9	37.193	270	62.61	148	1.76	70	11.43	310	48.630	264	66.30	168	60.070	255	51.80	268
15.9	37.463	300	64.09	165	2.46	85	8.33	266	48.894	293	67.98	180	60.325	288	49.12	259
25.8	37.763	318	65.74	176	3.31	97	5.67	215	49.187	313	69.78	188	60.613	311	46.53	242
35.8	38.081		67.50		4.28		3.52		49.500		71.66		60.924		44.11	
Mittl. Ort	34.336		50.30		8.44		41.34		45.866		52.71		57.979		72.80	
sec δ, tg δ	1.015		−0.174		4.781		+4.676		1.005		−0.098		1.062		+0.356	

Mittlere Zeit Greenw.	527) λ Bootis				531) ϑ Bootis				534) ρ Bootis				535) γ Bootis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	14ʰ 13ᵐ		+46° 27′		14ʰ 22ᵐ		+52° 12′		14ʰ 28ᵐ		+30° 43′		14ʰ 28ᵐ		+38° 39′	
Jan. 0.8	18ˢ.102	390	16″.77	227	25ˢ.859	416	69″.96	233	20ˢ.392	332	21″.14	237	48ˢ.873	351	27″.44	240
10.8	18.492	404	14.50	174	26.275	436	67.63	177	20.724	345	18.77	198	49.224	366	25.04	195
20.8	18.896	404	12.76	118	26.711	440	65.86	119	21.069	346	16.79	153	49.590	368	23.09	143
30.7	19.300	392	11.58	57	27.151	430	64.67	54	21.415	336	15.26	103	49.958	360	21.66	88
Feb. 9.7	19.692	368	11.01	5	27.581	408	64.13	9	21.751	318	14.23	50	50.318	341	20.78	30
19.7	20.060	334	11.06	64	27.989	374	64.22	72	22.069	291	13.73	3	50.659	313	20.48	28
März 1.7	20.394	292	11.70	120	28.363	329	64.94	130	22.360	261	13.76	55	50.972	279	20.76	83
11.6	20.686	246	12.90	170	28.692	279	66.24	181	22.621	224	14.31	102	51.251	240	21.59	132
21.6	20.932	195	14.60	210	28.971	223	68.05	224	22.845	188	15.33	142	51.491	198	22.91	175
31.6	21.127	144	16.70	243	29.194	165	70.29	257	23.033	148	16.75	176	51.689	155	24.66	210
Apr. 10.6	21.271	93	19.13	263	29.359	107	72.86	279	23.181	110	18.51	201	51.844	111	26.76	235
20.5	21.364	42	21.76	275	29.466	50	75.65	290	23.291	73	20.52	219	51.955	69	29.11	250
30.5	21.406	5	24.51	275	29.516	6	78.55	291	23.364	36	22.71	226	52.024	27	31.61	257
Mai 10.5	21.401	48	27.26	266	29.510	57	81.46	282	23.400	2	24.97	225	52.051	11	34.18	253
20.4	21.353	90	29.92	249	29.453	105	84.28	264	23.402	30	27.22	218	52.040	48	36.71	241
30.4	21.263	125	32.41	224	29.348	149	86.92	236	23.372	61	29.40	203	51.992	82	39.12	223
Juni 9.4	21.138	158	34.65	193	29.199	186	89.28	204	23.311	89	31.43	182	51.910	112	41.35	197
19.4	20.980	186	36.58	156	29.013	219	91.32	165	23.222	113	33.25	157	51.798	140	43.32	167
29.3	20.794	208	38.14	116	28.794	247	92.97	122	23.109	136	34.82	128	51.658	163	44.99	132
Juli 9.3	20.586	225	39.30	73	28.547	267	94.19	77	22.973	155	36.10	94	51.495	183	46.31	94
19.3	20.361	238	40.03	28	28.280	281	94.96	29	22.818	168	37.04	60	51.312	198	47.25	54
29.3	20.123	243	40.31	17	27.999	289	95.25	19	22.650	178	37.64	24	51.114	207	47.79	12
Aug. 8.2	19.880	241	40.14	63	27.710	288	95.06	68	22.472	182	37.88	13	50.907	210	47.91	29
18.2	19.639	233	39.51	108	27.422	280	94.38	115	22.290	179	37.75	51	50.697	206	47.62	71
28.2	19.406	216	38.43	151	27.142	261	93.23	160	22.111	169	37.24	88	50.491	194	46.91	113
Sept. 7.1	19.190	190	36.92	192	26.881	234	91.63	204	21.942	152	36.36	124	50.297	175	45.78	153
17.1	19.000	157	35.00	229	26.647	198	89.59	242	21.790	125	35.12	160	50.122	147	44.25	190
27.1	18.843	115	32.71	264	26.449	152	87.17	279	21.665	93	33.52	192	49.975	111	42.35	225
Okt. 7.1	18.728	65	30.07	294	26.297	98	84.38	309	21.572	52	31.60	224	49.864	67	40.10	257
17.0	18.663	8	27.13	317	26.199	36	81.29	333	21.520	5	29.36	250	49.797	17	37.53	284
27.0	18.655	52	23.96	335	26.163	30	77.96	351	21.515	46	26.86	274	49.780	38	34.69	306
Nov. 6.0	18.707	115	20.61	345	26.193	100	74.45	360	21.561	100	24.12	290	49.818	96	31.63	320
16.0	18.822	179	17.16	346	26.293	171	70.85	361	21.661	154	21.22	301	49.914	154	28.43	327
25.9	19.001	239	13.70	338	26.464	238	67.24	351	21.815	204	18.21	302	50.068	209	25.16	326
Dez. 5.9	19.240	293	10.32	320	26.702	301	63.73	331	22.019	251	15.19	297	50.277	259	21.90	315
15.9	19.533	338	7.12	291	27.003	354	60.42	301	22.270	288	12.22	281	50.536	302	18.75	293
25.8	19.871	373	4.21	254	27.357	395	57.41	261	22.558	318	9.41	256	50.838	335	15.82	263
35.8	20.244		1.67		27.752		54.80		22.876		6.85		51.173		13.19	
Mittl. Ort	18.337		35.00		26.390		88.77		20.368		34.90		49.020		43.11	
sec δ, tg δ	1.452		+1.052		1.632		+1.290		1.163		+0.594		1.281		+0.800	

Mittlere Zeit Greenw.	537) η Centauri AR.		537) η Centauri Dekl.		538) α Centauri *) AR.		538) α Centauri *) Dekl.		543) ζ Bootis med. AR.		543) ζ Bootis med. Dekl.		542) α Apodis AR.		542) α Apodis Dekl.	
1919	14h 30m		−41° 48′		14h 34m		−60° 29′		14h 37m		+14° 4′		14h 37m		−78° 41′	
Jan. 0.8	21.952	409	2.46	79	6.33	57	49.68	22	17.019	310	21.39	222	43.52	130	55.13	47
10.8	22.361	418	3.25	112	6.90	58	49.90	69	17.329	321	19.17	200	44.82	134	54.66	9
20.8	22.779	413	4.37	142	7.48	58	50.59	115	17.650	322	17.17	169	46.16	135	54.75	65
30.8	23.192	401	5.79	165	8.06	56	51.74	155	17.972	313	15.48	134	47.51	133	55.40	119
Feb. 9.7	23.593	378	7.44	184	8.62	52	53.29	191	18.285	296	14.14	94	48.84	128	56.59	166
19.7	23.971	349	9.28	198	9.14	49	55.20	220	18.581	274	13.20	53	50.12	119	58.25	210
März 1.7	24.320	316	11.26	206	9.63	44	57.40	243	18.855	248	12.67	12	51.31	110	60.35	247
11.6	24.636	280	13.32	209	10.07	38	59.83	260	19.103	217	12.55	27	52.41	97	62.82	278
21.6	24.916	242	15.41	209	10.45	33	62.43	271	19.320	186	12.82	63	53.38	84	65.60	302
31.6	25.158	204	17.50	205	10.78	27	65.14	277	19.506	153	13.45	94	54.22	69	68.62	319
Apr. 10.6	25.362	165	19.55	197	11.05	20	67.91	276	19.659	122	14.39	119	54.91	53	71.81	329
20.5	25.527	126	21.52	186	11.25	15	70.67	271	19.781	90	15.58	138	55.44	37	75.10	333
30.5	25.653	87	23.38	174	11.40	8	73.38	260	19.871	60	16.96	150	55.81	21	78.43	328
Mai 10.5	25.740	49	25.12	157	11.48	2	75.98	244	19.931	30	18.46	157	56.02	4	81.71	318
20.5	25.789	11	26.69	139	11.50	3	78.42	223	19.961	2	20.03	156	56.06	13	84.89	300
30.4	25.800	27	28.08	118	11.47	10	80.65	196	19.963	26	21.59	151	55.93	29	87.89	274
Juni 9.4	25.773	63	29.26	94	11.37	16	82.61	167	19.937	52	23.10	142	55.64	45	90.63	244
19.4	25.710	97	30.20	69	11.21	20	84.28	132	19.885	75	24.52	128	55.19	58	93.07	205
29.3	25.613	128	30.89	41	11.01	25	85.60	94	19.810	98	25.80	112	54.61	71	95.12	162
Juli 9.3	25.485	156	31.30	12	10.76	30	86.54	53	19.712	117	26.92	92	53.90	81	96.74	114
19.3	25.329	177	31.42	18	10.46	32	87.07	10	19.595	134	27.84	70	53.09	89	97.88	64
29.3	25.152	192	31.24	48	10.14	34	87.17	33	19.461	144	28.54	48	52.20	93	98.52	9
Aug. 8.2	24.960	199	30.76	77	9.80	34	86.84	77	19.317	151	29.02	23	51.27	94	98.61	46
18.2	24.761	198	29.99	103	9.46	34	86.07	119	19.166	152	29.25	3	50.33	93	98.15	99
28.2	24.563	185	28.96	128	9.12	31	84.88	157	19.014	144	29.22	29	49.40	87	97.16	150
Sept. 7.2	24.378	162	27.68	146	8.81	28	83.31	190	18.870	130	28.93	56	48.53	76	95.66	197
17.1	24.216	128	26.22	160	8.53	22	81.41	216	18.740	108	28.37	83	47.77	63	93.69	237
27.1	24.088	84	24.62	167	8.31	15	79.25	236	18.632	78	27.54	110	47.14	47	91.32	269
Okt. 7.1	24.004	32	22.95	166	8.16	7	76.89	245	18.554	41	26.44	139	46.67	28	88.63	290
17.0	23.972	28	21.29	159	8.09	1	74.44	245	18.513	1	25.05	164	46.39	6	85.73	302
27.0	24.000	91	19.70	143	8.10	11	71.99	235	18.514	49	23.41	189	46.33	16	82.71	300
Nov. 6.0	24.091	157	18.27	121	8.21	21	69.64	215	18.563	99	21.52	210	46.49	39	79.71	288
16.0	24.248	219	17.06	91	8.42	30	67.49	185	18.662	149	19.42	228	46.88	61	76.83	264
25.9	24.467	278	16.15	57	8.72	38	65.64	149	18.811	194	17.14	239	47.49	81	74.19	229
Dez. 5.9	24.745	326	15.58	21	9.10	45	64.15	106	19.005	237	14.75	244	48.30	98	71.90	187
15.9	25.071	367	15.37	18	9.55	50	63.09	58	19.242	271	12.31	242	49.28	113	70.03	138
25.9	25.438	394	15.55	56	10.05	55	62.51	9	19.513	297	9.89	232	50.41	123	68.65	83
35.8	25.832		16.11		10.60		62.42		19.810		7.57		51.64		67.82	
Mittl. Ort	21.386		10.09		5.77		61.42		16.806		30.11		43.71		69.07	
sec δ, tg δ	1.341		−0.894		2.031		−1.768		1.031		+0.251		5.105		−5.006	

*) Ort des hellen Sterns; die jährliche Parallaxe (0.″75) ist bereits berücksichtigt

Mittlere Zeit Greenw.	545) μ Virginis AR.		Dekl.		547) 109 Virginis AR.		Dekl.		548) α Librae AR.		Dekl.		549) Gr. 2164 AR.		Dekl.	
1919	14h 38m		−5° 18′		14h 42m		+2° 13′		14h 46m		−15° 42′		14h 49m		+59° 36′	
Jan. 0.8	47.729 s	315	27.39 ″	182	9.443 s	309	55.23 ″	198	24.044 s	323	21.04 ″	149	21.675 s	451	63.48 ″	250
10.8	48.044	323	29.21	179	9.752	318	53.25	188	24.367	334	22.53	156	22.126	485	60.98	195
20.8	48.367	322	31.00	169	10.070	318	51.37	170	24.701	333	24.09	158	22.611	504	59.03	135
30.8	48.689	313	32.69	154	10.388	310	49.67	147	25.034	324	25.67	155	23.115	504	57.68	69
Feb. 9.7	49.002	296	34.23	135	10.698	294	48.20	120	25.358	310	27.22	147	23.619	489	56.99	2
19.7	49.298	275	35.58	111	10.992	273	47.00	88	25.668	287	28.69	133	24.108	459	56.97	64
März 1.7	49.573	248	36.69	85	11.265	248	46.12	57	25.955	263	30.02	119	24.567	415	57.61	126
11.6	49.821	220	37.54	60	11.513	219	45.55	25	26.218	234	31.21	101	24.982	361	58.87	183
21.6	50.041	191	38.14	34	11.732	190	45.30	5	26.452	206	32.22	82	25.343	299	60.70	230
31.6	50.232	161	38.48	11	11.922	160	45.35	31	26.658	176	33.04	65	25.642	231	63.00	267
Apr. 10.6	50.393	131	38.59	9	12.082	130	45.66	54	26.834	146	33.69	48	25.873	161	65.67	294
20.5	50.524	102	38.50	27	12.212	100	46.20	73	26.980	116	34.17	33	26.034	90	68.61	310
30.5	50.626	74	38.23	42	12.312	72	46.93	87	27.096	87	34.50	19	26.124	20	71.71	314
Mai 10.5	50.700	46	37.81	51	12.384	44	47.80	96	27.183	59	34.69	6	26.144	48	74.85	307
20.5	50.746	18	37.30	60	12.428	16	48.76	101	27.242	29	34.75	5	26.096	111	77.92	292
30.4	50.764	9	36.70	65	12.444	11	49.77	102	27.271	0	34.70	14	25.985	169	80.84	266
Juni 9.4	50.755	35	36.05	68	12.433	37	50.79	100	27.271	27	34.56	23	25.816	223	83.50	234
19.4	50.720	59	35.37	68	12.396	62	51.79	95	27.244	55	34.33	30	25.593	269	85.84	195
29.3	50.661	83	34.69	67	12.334	85	52.74	88	27.189	81	34.03	37	25.324	309	87.79	152
Juli 9.3	50.578	103	34.02	65	12.249	104	53.62	79	27.108	103	33.66	44	25.015	340	89.31	104
19.3	50.475	120	33.37	61	12.145	123	54.41	67	27.005	123	33.22	49	24.675	364	90.35	55
29.3	50.355	133	32.76	56	12.022	135	55.08	55	26.882	137	32.73	54	24.311	379	90.90	4
Aug. 8.2	50.222	140	32.20	49	11.887	142	55.63	42	26.745	147	32.19	58	23.932	384	90.94	47
18.2	50.082	142	31.71	41	11.745	145	56.05	26	26.598	149	31.61	60	23.548	378	90.47	98
28.2	49.940	135	31.30	32	11.600	138	56.31	9	26.449	143	31.01	60	23.170	363	89.49	146
Sept. 7.2	49.805	121	30.98	19	11.462	125	56.40	8	26.306	130	30.41	57	22.807	335	88.03	193
17.1	49.684	99	30.79	4	11.337	104	56.32	29	26.176	107	29.84	51	22.472	297	86.10	236
27.1	49.585	69	30.75	12	11.233	74	56.03	50	26.069	76	29.33	41	22.175	246	83.74	275
Okt. 7.1	49.516	31	30.87	31	11.159	38	55.53	72	25.993	37	28.92	28	21.929	187	80.99	309
17.0	49.485	12	31.18	53	11.121	4	54.81	96	25.956	7	28.64	11	21.742	116	77.90	337
27.0	49.497	59	31.71	76	11.125	52	53.85	120	25.963	58	28.53	10	21.626	39	74.53	357
Nov. 6.0	49.556	109	32.47	99	11.177	101	52.65	143	26.021	109	28.63	32	21.587	45	70.96	370
16.0	49.665	158	33.46	122	11.278	149	51.22	164	26.130	159	28.95	57	21.632	128	67.26	372
25.9	49.823	204	34.68	143	11.427	195	49.58	181	26.289	208	29.52	80	21.760	211	63.54	365
Dez. 5.9	50.027	245	36.11	160	11.622	236	47.77	194	26.497	250	30.32	105	21.971	292	59.89	347
15.9	50.272	278	37.71	173	11.858	270	45.83	200	26.747	284	31.37	124	22.263	361	56.42	319
25.9	50.550	301	39.44	180	12.128	295	43.83	202	27.031	310	32.61	140	22.624	421	53.23	278
35.8	50.851		41.24		12.423		41.81		27.341		34.01		23.045		50.45	
Mittl. Ort	47.349		24.59		9.138		60.25		23.638		21.55		22.915		81.63	
sec δ, tg δ	1.004		−0.093		1.001		+0.039		1.039		−0.281		1.978		+1.706	

Mittlere Zeit Greenw.	550) β Ursae min. AR.	Δ	550) Dekl.	Δ	551) P. XIV, 221 AR.	Δ	551) Dekl.	Δ	552) β Lupi AR.	Δ	552) Dekl.	Δ	555) β Bootis AR.	Δ	555) Dekl.	Δ
1919	14h 50m		+74° 28′		14h 52m		+14° 46′		14h 53m		−42° 48′		14h 58m		+40° 42′	
Jan. 0.8	52.08	75	52.13	233	23.914	305	13.85	225	13.523	406	23.31	50	53.273	338	19.34	261
10.8	52.83	81	49.80	176	24.219	316	11.60	202	13.929	419	23.81	85	53.611	359	16.73	217
20.8	53.64	87	48.04	111	24.535	321	9.58	173	14.348	421	24.66	114	53.970	370	14.56	166
30.8	54.51	87	46.93	45	24.856	314	7.85	137	14.769	413	25.80	139	54.340	369	12.90	110
Feb. 9.7	55.38	86	46.48	25	25.170	301	6.48	97	15.182	395	27.19	160	54.709	357	11.80	51
19.7	56.24	80	46.73	91	25.471	281	5.51	55	15.577	370	28.79	176	55.066	336	11.29	10
März 1.7	57.04	73	47.64	153	25.752	257	4.96	13	15.947	342	30.55	187	55.402	307	11.39	67
11.7	57.77	63	49.17	207	26.009	229	4.83	28	16.289	308	32.42	193	55.709	272	12.06	122
21.6	58.40	52	51.24	254	26.238	198	5.11	66	16.597	273	34.35	196	55.981	233	13.28	169
31.6	58.92	38	53.78	288	26.436	167	5.77	97	16.870	236	36.31	195	56.214	191	14.97	209
Apr. 10.6	59.30	24	56.66	312	26.603	136	6.74	124	17.106	197	38.26	190	56.405	148	17.06	239
20.5	59.54	11	59.78	324	26.739	105	7.98	144	17.303	159	40.16	184	56.553	105	19.45	259
30.5	59.65	4	63.02	325	26.844	73	9.42	158	17.462	119	42.00	174	56.658	61	22.04	270
Mai 10.5	59.61	18	66.27	314	26.917	44	11.00	164	17.581	79	43.74	162	56.719	19	24.74	271
20.5	59.43	30	69.41	293	26.961	14	12.64	165	17.660	39	45.36	146	56.738	21	27.45	264
30.4	59.13	42	72.34	264	26.975	15	14.29	161	17.699	2	46.82	128	56.717	60	30.09	247
Juni 9.4	58.71	52	74.98	228	26.960	42	15.90	151	17.697	41	48.10	108	56.657	96	32.56	224
19.4	58.19	62	77.26	185	26.918	69	17.41	137	17.656	80	49.18	85	56.561	129	34.80	196
29.4	57.57	68	79.11	137	26.849	93	18.78	120	17.576	115	50.03	58	56.432	159	36.76	161
Juli 9.3	56.89	73	80.48	87	26.756	114	19.98	100	17.461	147	50.61	31	56.273	184	38.37	123
19.3	56.16	78	81.35	34	26.642	133	20.98	78	17.314	175	50.92	2	56.089	206	39.60	83
29.3	55.38	80	81.69	19	26.509	146	21.76	54	17.139	195	50.94	27	55.883	221	40.43	40
Aug. 8.2	54.58	80	81.50	72	26.363	156	22.30	29	16.944	206	50.67	57	55.662	229	40.83	4
18.2	53.78	78	80.78	123	26.207	158	22.59	3	16.738	210	50.10	86	55.433	231	40.79	48
28.2	53.00	74	79.55	173	26.049	153	22.62	25	16.528	203	49.24	111	55.202	224	40.31	91
Sept. 7.2	52.26	70	77.82	219	25.896	142	22.37	52	16.325	183	48.13	133	54.978	209	39.40	134
17.1	51.56	62	75.63	261	25.754	120	21.85	81	16.142	153	46.80	150	54.769	185	38.06	175
27.1	50.94	52	73.02	298	25.634	93	21.04	109	15.989	111	45.30	162	54.584	151	36.31	213
Okt. 7.1	50.42	42	70.04	329	25.541	56	19.95	137	15.878	61	43.68	165	54.433	110	34.18	248
17.1	50.00	29	66.75	354	25.485	14	18.58	164	15.817	1	42.03	163	54.323	60	31.70	279
27.0	49.71	16	63.21	371	25.471	32	16.94	188	15.816	62	40.40	151	54.263	5	28.91	304
Nov. 6.0	49.55	1	59.50	379	25.503	83	15.06	211	15.878	129	38.89	134	54.258	55	25.87	323
16.0	49.54	15	55.71	377	25.586	133	12.95	228	16.007	195	37.55	109	54.313	114	22.64	334
25.9	49.69	29	51.94	365	25.719	180	10.67	241	16.202	255	36.46	78	54.427	174	19.30	335
Dez. 5.9	49.98	43	48.29	342	25.899	224	8.26	246	16.457	309	35.68	44	54.601	229	15.95	328
15.9	50.41	58	44.87	309	26.123	260	5.80	245	16.766	354	35.24	9	54.830	277	12.67	311
25.9	50.99	68	41.78	265	26.383	289	3.35	235	17.120	387	35.15	28	55.107	316	9.56	282
35.8	51.67		39.13		26.672		1.00		17.507		35.43		55.423		6.74	
Mittl. Ort	55.56		71.55		23.791		22.14		13.097		31.16		53.693		33.64	
sec δ, tg δ	3.739		+3.603		1.034		+0.264		1.363		−0.926		1.319		+0.860	

Mittlere Zeit Greenw.	556) γ Scorpii AR.		556) γ Scorpii Dekl.		557) ψ Bootis AR.		557) ψ Bootis Dekl.		558) ζ Lupi AR.		558) ζ Lupi Dekl.		560) γ Triang. austr. AR.		560) γ Triang. austr. Dekl.	
1919	14h 59m		−24° 57′		15h 0m		+27° 15′		15h 6m		−51° 47′		15h 11m		−68° 22′	
Jan. 0.9	19.868	337	49.10	110	58.361	309	34.71	249	27.637	459	21.26	2	19.55	71	41.61	63
10.8	20.205	350	50.20	126	58.670	327	32.22	215	28.096	479	21.28	43	20.26	74	40.98	15
20.8	20.555	351	51.46	138	58.997	333	30.07	175	28.575	485	21.71	79	21.00	77	40.83	35
30.8	20.906	345	52.84	145	59.330	330	28.32	128	29.060	481	22.50	113	21.77	76	41.18	82
Feb. 9.7	21.251	331	54.29	147	59.660	319	27.04	77	29.541	464	23.63	144	22.53	74	42.00	125
19.7	21.582	310	55.76	145	59.979	300	26.27	26	30.005	441	25.07	168	23.27	71	43.25	164
März 1.7	21.892	287	57.21	139	60.279	275	26.01	26	30.446	410	26.75	188	23.98	66	44.89	199
11.7	22.179	259	58.60	130	60.554	246	26.27	74	30.856	374	28.63	204	24.64	61	46.88	227
21.6	22.438	230	59.90	119	60.800	213	27.01	118	31.230	334	30.67	214	25.25	55	49.15	250
31.6	22.668	201	61.09	107	61.013	179	28.19	155	31.564	293	32.81	221	25.80	47	51.65	268
Apr. 10.6	22.869	170	62.16	95	61.192	144	29.74	185	31.857	247	35.02	224	26.27	40	54.33	279
20.6	23.039	139	63.11	83	61.336	109	31.59	206	32.104	202	37.26	222	26.67	32	57.12	286
30.5	23.178	107	63.94	71	61.445	73	33.65	219	32.306	155	39.48	216	26.99	23	59.98	286
Mai 10.5	23.285	77	64.65	59	61.518	40	35.84	224	32.461	105	41.64	207	27.22	14	62.84	280
20.5	23.362	45	65.24	46	61.558	6	38.08	221	32.566	55	43.71	193	27.36	6	65.64	268
30.4	23.407	12	65.70	35	61.564	27	40.29	211	32.621	5	45.64	176	27.42	3	68.32	251
Juni 9.4	23.419	19	66.05	22	61.537	57	42.40	195	32.626	44	47.40	154	27.39	12	70.83	226
19.4	23.400	50	66.27	10	61.480	87	44.35	174	32.582	93	48.94	129	27.27	20	73.09	197
29.4	23.350	79	66.37	3	61.393	113	46.09	148	32.489	138	50.23	100	27.07	28	75.06	162
Juli 9.3	23.271	106	66.34	17	61.280	136	47.57	119	32.351	179	51.23	68	26.79	35	76.68	123
19.3	23.165	129	66.17	30	61.144	157	48.76	87	32.172	214	51.91	34	26.44	40	77.91	78
29.3	23.036	147	65.87	43	60.987	173	49.63	53	31.958	240	52.25	3	26.04	45	78.69	32
Aug. 8.3	22.889	159	65.44	56	60.814	181	50.16	18	31.718	257	52.22	39	25.59	47	79.01	16
18.2	22.730	164	64.88	68	60.633	185	50.34	18	31.461	263	51.83	75	25.12	49	78.85	65
28.2	22.566	159	64.20	76	60.448	180	50.16	55	31.198	256	51.08	110	24.63	47	78.20	112
Sept. 7.2	22.407	146	63.44	82	60.268	168	49.61	90	30.942	236	49.98	140	24.16	43	77.08	155
17.1	22.261	124	62.62	85	60.100	148	48.71	126	30.706	202	48.58	167	23.73	37	75.53	195
27.1	22.137	92	61.77	84	59.952	119	47.45	161	30.504	155	46.91	186	23.36	30	73.58	227
Okt. 7.1	22.045	51	60.93	77	59.833	82	45.84	193	30.349	97	45.05	199	23.06	20	71.31	251
17.1	21.994	5	60.16	65	59.751	37	43.91	222	30.252	29	43.06	203	22.86	9	68.80	265
27.0	21.989	49	59.51	49	59.714	11	41.69	249	30.223	46	41.03	198	22.77	3	66.15	269
Nov. 6.0	22.038	103	59.02	29	59.725	64	39.20	270	30.269	124	39.05	185	22.80	15	63.46	262
16.0	22.141	157	58.73	5	59.789	117	36.50	285	30.393	201	37.20	164	22.95	28	60.84	244
26.0	22.298	209	58.68	21	59.906	170	33.65	292	30.594	273	35.56	136	23.23	40	58.40	218
Dez. 5.9	22.507	254	58.89	48	60.076	216	30.73	293	30.867	338	34.20	101	23.63	50	56.22	183
15.9	22.761	292	59.37	73	60.292	258	27.80	283	31.205	393	33.19	64	24.13	60	54.39	140
25.9	23.053	321	60.10	96	60.550	292	24.97	264	31.598	435	32.55	23	24.73	66	52.99	95
35.8	23.374		61.06		60.842		22.33		32.033		32.32		25.39		52.04	
Mittl. Ort	19.490		52.42		58.476		45.86		27.334		30.93		19.61		53.87	
sec δ, tg δ	1.103		−0.466		1.125		+0.515		1.617		−1.270		2.714		−2.523	

Mittlere Zeit Greenw.	563) δ Bootis AR.		563) δ Bootis Dekl.		564) β Librae AR.		564) β Librae Dekl.		565) 1 H. Ursae min. AR.		565) 1 H. Ursae min. Dekl.		566) φ¹ Lupi AR.		566) φ¹ Lupi Dekl.	
1919	$15^h 12^m$		$+33° 36'$		$15^h 12^m$		$-9° 5'$		$15^h 13^m$		$+67° 38'$		$15^h 16^m$		$-35° 58'$	
Jan. 0.9	13.917	311	46.67	262	38.989	304	6.62	157	39.77	52	57.61	266	39.929	362	0.48	53
10.8	14.228	334	44.05	225	39.293	317	8.19	159	40.29	58	54.95	213	40.291	380	1.01	79
20.8	14.562	344	41.80	180	39.610	322	9.78	154	40.87	62	52.82	153	40.671	385	1.80	102
30.8	14.906	345	40.00	128	39.932	319	11.32	143	41.49	64	51.29	86	41.056	383	2.82	121
Feb. 9.7	15.251	336	38.72	75	40.251	308	12.75	128	42.13	63	50.43	18	41.439	371	4.03	135
19.7	15.587	319	37.97	17	40.559	291	14.03	109	42.76	61	50.25	50	41.810	352	5.38	144
März 1.7	15.906	294	37.80	38	40.850	270	15.12	88	43.37	56	50.75	115	42.162	329	6.82	151
11.7	16.200	265	38.18	91	41.120	246	16.00	65	43.93	50	51.90	174	42.491	302	8.33	153
21.6	16.465	232	39.09	137	41.366	221	16.65	43	44.43	42	53.64	225	42.793	273	9.86	152
31.6	16.697	196	40.46	178	41.587	193	17.08	21	44.85	34	55.89	267	43.066	241	11.38	149
Apr. 10.6	16.893	159	42.24	210	41.780	165	17.29	2	45.19	25	58.56	297	43.307	209	12.87	144
20.6	17.052	121	44.34	233	41.945	137	17.31	14	45.44	15	61.53	317	43.516	175	14.31	138
30.5	17.173	82	46.67	247	42.082	109	17.17	28	45.59	6	64.70	325	43.691	140	15.69	129
Mai 10.5	17.255	45	49.14	252	42.191	80	16.89	38	45.65	4	67.95	322	43.831	104	16.98	120
20.5	17.300	7	51.66	248	42.271	50	16.51	47	45.61	14	71.17	309	43.935	66	18.18	108
30.4	17.307	28	54.14	238	42.321	21	16.04	52	45.47	21	74.26	285	44.001	29	19.26	95
Juni 9.4	17.279	63	56.52	219	42.342	9	15.52	56	45.26	29	77.11	255	44.030	9	20.21	80
19.4	17.216	95	58.71	194	42.333	38	14.96	58	44.97	37	79.66	217	44.021	46	21.01	64
29.4	17.121	125	60.65	166	42.295	66	14.38	58	44.60	42	81.83	174	43.975	82	21.65	44
Juli 9.3	16.996	151	62.31	133	42.229	91	13.80	58	44.18	48	83.57	127	43.893	115	22.09	25
19.3	16.845	174	63.64	96	42.138	114	13.22	56	43.70	51	84.84	76	43.778	144	22.34	3
29.3	16.671	191	64.60	59	42.024	133	12.66	54	43.19	54	85.60	25	43.634	167	22.37	20
Aug. 8.3	16.480	202	65.19	19	41.891	146	12.12	50	42.65	55	85.85	29	43.467	184	22.17	42
18.2	16.278	207	65.38	21	41.745	152	11.62	46	42.10	55	85.56	80	43.283	192	21.75	63
28.2	16.071	204	65.17	62	41.593	151	11.16	40	41.55	53	84.76	132	43.091	190	21.12	85
Sept. 7.2	15.867	193	64.55	102	41.442	142	10.76	31	41.02	51	83.44	180	42.901	178	20.27	101
17.1	15.674	172	63.53	141	41.300	123	10.45	21	40.51	46	81.64	226	42.723	154	19.26	115
27.1	15.502	143	62.12	178	41.177	97	10.24	8	40.05	40	79.38	267	42.569	121	18.11	124
Okt. 7.1	15.359	106	60.34	214	41.080	61	10.16	7	39.65	33	76.71	304	42.448	78	16.87	128
17.1	15.253	60	58.20	245	41.019	20	10.23	26	39.32	24	73.67	334	42.370	26	15.59	124
27.0	15.193	10	55.75	272	40.999	28	10.49	45	39.08	14	70.33	358	42.344	32	14.35	115
Nov. 6.0	15.183	45	53.03	293	41.027	78	10.94	67	38.94	4	66.75	373	42.376	92	13.20	99
16.0	15.228	101	50.10	309	41.105	128	11.61	88	38.90	7	63.02	379	42.468	154	12.21	78
26.0	15.329	157	47.01	316	41.233	177	12.49	110	38.97	18	59.23	374	42.622	211	11.43	53
Dez. 5.9	15.486	208	43.85	313	41.410	220	13.59	128	39.15	28	55.49	359	42.833	264	10.90	25
15.9	15.694	255	40.72	302	41.630	258	14.87	143	39.43	39	51.90	332	43.097	308	10.65	5
25.9	15.949	291	37.70	280	41.888	287	16.30	153	39.82	48	48.58	295	43.405	342	10.70	35
35.8	16.240		34.90		42.175		17.83		40.30		45.63		43.747		11.05	
Mittl. Ort	14.231		58.63		38.746		5.75		42.18		74.71		39.625		6.66	
sec δ, tg δ	1.201		+0.665		1.013		−0.160		2.630		+2.433		1.236		−0.726	

Mittlere Zeit Greenw.	569) γ Ursae min. AR.		Dekl.		568) μ Bootis AR.		Dekl.		571) ι Draconis AR.		Dekl.		572) β Coron. bor. AR.		Dekl.	
1919	15ʰ 20ᵐ		+72° 6′		15ʰ 21ᵐ		+37° 39′		15ʰ 23ᵐ		+59° 14′		15ʰ 24ᵐ		+29° 22′	
Jan. 0.9	47.34	60	63.16	266	25.328	313	25.79	270	5.983	407	42.40	280	29.069	296	52.70	260
10.8	47.94	68	60.50	214	25.641	338	23.09	232	6.390	452	39.60	230	29.365	319	50.10	228
20.8	48.62	74	58.36	153	25.979	351	20.77	185	6.842	481	37.30	172	29.684	330	47.82	186
30.8	49.36	76	56.83	87	26.330	356	18.92	131	7.323	495	35.58	109	30.014	333	45.96	140
Feb. 9.8	50.12	77	55.96	19	26.686	348	17.61	74	7.818	491	34.49	43	30.347	327	44.56	88
19.7	50.89	74	55.77	50	27.034	333	16.87	15	8.309	474	34.06	26	30.674	312	43.68	34
März 1.7	51.63	68	56.27	114	27.367	310	16.72	43	8.783	441	34.32	90	30.986	290	43.34	20
11.7	52.31	62	57.41	175	27.677	281	17.15	99	9.224	397	35.22	151	31.276	265	43.54	71
21.6	52.93	53	59.16	226	27.958	247	18.14	148	9.621	345	36.73	204	31.541	235	44.25	119
31.6	53.46	42	61.42	268	28.205	211	19.62	190	9.966	284	38.77	249	31.776	202	45.44	158
Apr. 10.6	53.88	30	64.10	300	28.416	171	21.52	224	10.250	219	41.26	282	31.978	169	47.02	192
20.6	54.18	19	67.10	320	28.587	130	23.76	249	10.469	151	44.08	306	32.147	133	48.94	216
30.5	54.37	7	70.30	328	28.717	90	26.25	264	10.620	81	47.14	318	32.280	98	51.10	232
Mai 10.5	54.44	6	73.58	326	28.807	50	28.89	269	10.701	13	50.32	319	32.378	61	53.42	240
20.5	54.38	17	76.84	313	28.857	10	31.58	265	10.714	53	53.51	310	32.439	26	55.82	239
30.5	54.21	28	79.97	290	28.867	29	34.23	254	10.661	117	56.61	292	32.465	8	58.21	231
Juni 9.4	53.93	38	82.87	260	28.838	67	36.77	235	10.544	176	59.53	265	32.457	44	60.52	215
19.4	53.55	46	85.47	223	28.771	102	39.12	211	10.368	229	62.18	231	32.413	75	62.67	196
29.4	53.09	55	87.70	179	28.669	134	41.23	179	10.139	278	64.49	191	32.338	106	64.63	169
Juli 9.3	52.54	60	89.49	132	28.535	163	43.02	145	9.861	319	66.40	147	32.232	134	66.32	139
19.3	51.94	66	90.81	81	28.372	188	44.47	106	9.542	352	67.87	100	32.098	158	67.71	107
29.3	51.28	69	91.62	30	28.184	207	45.53	66	9.190	376	68.87	50	31.940	178	68.78	72
Aug. 8.3	50.59	70	91.92	23	27.977	220	46.19	24	8.814	391	69.37	2	31.762	190	69.50	35
18.2	49.89	71	91.69	76	27.757	226	46.43	19	8.423	396	69.35	52	31.572	198	69.85	3
28.2	49.18	69	90.93	128	27.531	224	46.24	62	8.027	389	68.83	104	31.374	198	69.82	42
Sept. 7.2	48.49	66	89.65	176	27.307	214	45.62	105	7.638	371	67.79	152	31.176	188	69.40	80
17.2	47.83	60	87.89	222	27.093	194	44.57	146	7.267	340	66.27	199	30.988	171	68.60	117
27.1	47.23	53	85.67	264	26.899	164	43.11	185	6.927	297	64.28	242	30.817	144	67.43	154
Okt. 7.1	46.70	44	83.03	301	26.735	127	41.26	222	6.630	243	61.86	280	30.673	109	65.89	189
17.1	46.26	35	80.02	331	26.608	81	39.04	255	6.387	178	59.06	314	30.564	67	64.00	220
27.0	45.91	22	76.71	355	26.527	28	36.49	283	6.209	104	55.92	341	30.497	18	61.80	249
Nov. 6.0	45.69	10	73.16	371	26.499	28	33.66	306	6.105	24	52.51	360	30.479	35	59.31	272
16.0	45.59	4	69.45	377	26.527	86	30.60	321	6.081	62	48.91	371	30.514	89	56.59	289
26.0	45.63	17	65.68	373	26.613	145	27.39	327	6.143	146	45.20	370	30.603	143	53.70	300
Dez. 5.9	45.80	30	61.95	358	26.758	200	24.12	325	6.289	229	41.50	361	30.746	194	50.70	301
15.9	46.10	44	58.37	332	26.958	249	20.87	313	6.518	305	37.89	338	30.940	238	47.69	293
25.9	46.54	54	55.05	295	27.207	290	17.74	289	6.823	371	34.51	305	31.178	276	44.76	275
35.9	47.08		52.10		27.497		14.85		7.194		31.46		31.454		42.01	
Mittl. Ort	50.74		79.97		25.805		38.00		7.541		57.89		29.356		62.98	
sec δ, tg δ	3.258		+3.100		1.263		+0.772		1.956		+1.681		1.148		+0.563	

Mittlere Zeit Greenw.	573) ν¹ Bootis AR.	Δ	573) ν¹ Bootis Dekl.	Δ	575) γ Lupi AR.	Δ	575) γ Lupi Dekl.	Δ	577) γ Librae AR.	Δ	577) γ Librae Dekl.	Δ	578) α Coron. bor. AR.	Δ	578) α Coron. bor. Dekl.	Δ
1919	15h 28m		+41° 6′		15h 29m		−40° 53′		15h 30m		−14° 31′		15h 31m		+26° 58′	
Jan. 0.9	0.545	315	18.26	278	44.383	376	36.76	20	59.729	301	12.07	128	15.204	290	62.05	259
10.8	0.860	344	15.48	238	44.759	397	36.96	49	60.030	319	13.35	135	15.494	311	59.46	228
20.8	1.204	361	13.10	189	45.156	406	37.45	76	60.349	326	14.70	136	15.805	325	57.18	190
30.8	1.565	367	11.21	134	45.562	407	38.21	100	60.675	325	16.06	131	16.130	328	55.28	145
Feb. 9.8	1.932	362	9.87	75	45.969	397	39.21	119	61.000	317	17.37	122	16.458	322	53.83	95
19.7	2.294	348	9.12	14	46.366	381	40.40	135	61.317	304	18.59	110	16.780	310	52.88	42
März 1.7	2.642	326	8.98	47	46.747	358	41.75	146	61.621	285	19.69	94	17.090	290	52.46	9
11.7	2.968	296	9.45	103	47.105	332	43.21	154	61.906	264	20.63	77	17.380	266	52.55	60
21.7	3.264	262	10.48	155	47.437	304	44.75	158	62.170	240	21.40	59	17.646	237	53.15	107
31.6	3.526	223	12.03	199	47.741	271	46.33	161	62.410	215	21.99	41	17.883	207	54.22	147
Apr. 10.6	3.749	182	14.02	234	48.012	237	47.94	159	62.625	187	22.40	25	18.090	175	55.69	180
20.6	3.931	141	16.36	260	48.249	203	49.53	156	62.812	160	22.65	11	18.265	141	57.49	206
30.5	4.072	97	18.96	276	48.452	164	51.09	151	62.972	131	22.76	1	18.406	106	59.55	222
Mai 10.5	4.169	53	21.72	281	48.616	125	52.60	144	63.103	102	22.75	11	18.512	72	61.77	231
20.5	4.222	11	24.53	279	48.741	85	54.04	134	63.205	71	22.64	19	18.584	36	64.08	232
30.5	4.233	31	27.32	266	48.826	44	55.38	122	63.276	40	22.45	26	18.620	2	66.40	225
Juni 9.4	4.202	71	29.98	247	48.870	1	56.60	108	63.316	8	22.19	31	18.622	32	68.65	212
19.4	4.131	108	32.45	221	48.871	41	57.68	90	63.324	24	21.88	35	18.590	64	70.77	193
29.4	4.023	144	34.66	189	48.830	80	58.58	71	63.300	54	21.53	38	18.526	96	72.70	169
Juli 9.4	3.879	174	36.55	153	48.750	119	59.29	48	63.246	84	21.15	41	18.430	124	74.39	141
19.3	3.705	202	38.08	113	48.631	152	59.77	24	63.162	109	20.74	43	18.306	149	75.80	111
29.3	3.503	222	39.21	70	48.479	179	60.01	1	63.053	132	20.31	45	18.157	169	76.91	76
Aug. 8.3	3.281	237	39.91	27	48.300	199	60.00	29	62.921	148	19.86	47	17.988	184	77.67	42
18.2	3.044	244	40.18	18	48.101	210	59.71	54	62.773	158	19.39	48	17.804	192	78.09	6
28.2	2.800	242	40.00	62	47.891	211	59.17	80	62.615	159	18.91	46	17.612	193	78.15	32
Sept. 7.2	2.558	233	39.38	108	47.680	200	58.37	102	62.456	153	18.45	44	17.419	186	77.83	69
17.2	2.325	213	38.30	150	47.480	177	57.35	122	62.303	136	18.01	39	17.233	169	77.14	105
27.1	2.112	183	36.80	191	47.303	144	56.13	136	62.167	111	17.62	31	17.064	143	76.09	141
Okt. 7.1	1.929	145	34.89	229	47.159	99	54.77	144	62.056	77	17.31	21	16.921	111	74.68	176
17.1	1.784	98	32.60	264	47.060	45	53.33	147	61.979	35	17.10	7	16.810	69	72.92	207
27.1	1.686	44	29.96	292	47.015	16	51.86	142	61.944	12	17.03	10	16.741	21	70.85	236
Nov. 6.0	1.642	15	27.04	315	47.031	80	50.44	130	61.956	63	17.13	29	16.720	31	68.49	260
16.0	1.657	75	23.89	331	47.111	146	49.14	112	62.019	115	17.42	50	16.751	84	65.89	278
26.0	1.732	137	20.58	338	47.257	207	48.02	89	62.134	165	17.92	70	16.835	137	63.11	290
Dez. 5.9	1.869	194	17.20	335	47.464	265	47.13	61	62.299	212	18.62	90	16.972	187	60.21	293
15.9	2.063	246	13.85	321	47.729	314	46.52	31	62.511	251	19.52	108	17.159	231	57.28	287
25.9	2.309	291	10.64	298	48.043	353	46.21	0	62.762	282	20.60	122	17.390	269	54.41	272
35.9	2.600		7.66		48.396		46.21		63.044		21.82		17.659		51.69	
Mittl. Ort	1.169		30.65		44.158		43.98		59.538		13.01		15.476		71.39	
sec δ, tg δ	1.327		+0.873		1.323		−0.866		1.033		−0.259		1.122		+0.509	

Mittlere Zeit Greenw.	582) α Serpentis AR.		582) α Serpentis Dekl.		583) β Serpentis AR.		583) β Serpentis Dekl.		584) κ Serpentis AR.		584) κ Serpentis Dekl.		585) μ Serpentis AR.		585) μ Serpentis Dekl.	
1919	15h 40m		+6° 40′		15h 42m		+15° 40′		15h 45m		+18° 23′		15h 45m		−3° 10′	
Jan. 0.9	16.605	278	42.35	204	26.785	275	21.74	232	5.404	274	20.31	240	23.522	280	61.44	167
10.8	16.883	296	40.31	191	27.060	296	19.42	212	5.678	296	17.91	218	23.802	298	63.11	163
20.8	17.179	308	38.40	171	27.356	309	17.30	184	5.974	309	15.73	188	24.100	309	64.74	153
30.8	17.487	309	36.69	145	27.665	312	15.46	149	6.283	314	13.85	151	24.409	312	66.27	137
Feb. 9.8	17.796	304	35.24	114	27.977	308	13.97	110	6.597	310	12.34	109	24.721	306	67.64	116
19.7	18.100	293	34.10	78	28.285	298	12.87	66	6.907	300	11.25	63	25.027	296	68.80	91
März 1.7	18.393	276	33.32	43	28.583	280	12.21	22	7.207	284	10.62	17	25.323	280	69.71	64
11.7	18.669	257	32.89	6	28.863	260	11.99	22	7.491	263	10.45	29	25.603	261	70.35	36
21.7	18.926	233	32.83	29	29.123	236	12.21	62	7.754	239	10.74	72	25.864	239	70.71	9
31.6	19.159	207	33.12	60	29.359	210	12.83	99	7.993	213	11.46	109	26.103	215	70.80	16
Apr. 10.6	19.366	181	33.72	87	29.569	182	13.82	130	8.206	184	12.55	142	26.318	190	70.64	38
20.6	19.547	154	34.59	109	29.751	153	15.12	154	8.390	154	13.97	168	26.508	163	70.26	57
30.5	19.701	125	35.68	125	29.904	122	16.66	172	8.544	123	15.65	185	26.671	136	69.69	71
Mai 10.5	19.826	95	36.93	135	30.026	91	18.38	182	8.667	92	17.50	196	26.807	106	68.98	82
20.5	19.921	65	38.28	141	30.117	59	20.20	187	8.759	59	19.46	200	26.913	77	68.16	88
30.5	19.986	34	39.69	142	30.176	27	22.07	184	8.818	26	21.46	197	26.990	46	67.28	91
Juni 9.4	20.020	3	41.11	137	30.203	5	23.91	176	8.844	7	23.43	189	27.036	14	66.37	91
19.4	20.023	28	42.48	130	30.198	37	25.67	165	8.837	39	25.32	174	27.050	17	65.46	89
29.4	19.995	58	43.78	118	30.161	68	27.32	148	8.798	70	27.06	157	27.033	48	64.57	84
Juli 9.4	19.937	86	44.96	104	30.093	96	28.80	127	8.728	100	28.63	135	26.985	78	63.73	77
19.3	19.851	112	46.00	89	29.997	123	30.07	104	8.628	126	29.98	110	26.907	104	62.96	70
29.3	19.739	133	46.89	72	29.874	144	31.11	80	8.502	149	31.08	83	26.803	128	62.26	60
Aug. 8.3	19.606	151	47.61	53	29.730	160	31.91	54	8.353	165	31.91	55	26.675	145	61.66	51
18.2	19.455	160	48.14	33	29.570	172	32.45	26	8.188	176	32.46	25	26.530	156	61.15	40
28.2	19.295	163	48.47	12	29.398	174	32.71	3	8.012	180	32.71	7	26.374	161	60.75	28
Sept. 7.2	19.132	159	48.59	11	29.224	169	32.68	33	7.832	175	32.64	38	26.213	156	60.47	15
17.2	18.973	144	48.48	33	29.055	156	32.35	62	7.657	161	32.26	69	26.057	143	60.32	0
27.1	18.829	122	48.15	57	28.899	133	31.73	92	7.496	139	31.57	102	25.914	121	60.32	16
Okt. 7.1	18.707	91	47.58	81	28.766	102	30.81	122	7.357	108	30.55	132	25.793	90	60.48	35
17.1	18.616	53	46.77	107	28.664	63	29.59	150	7.249	70	29.23	162	25.703	52	60.83	53
27.1	18.563	8	45.70	130	28.601	19	28.09	178	7.179	24	27.61	190	25.651	7	61.36	74
Nov. 6.0	18.555	40	44.40	153	28.582	30	26.31	201	7.155	25	25.71	215	25.644	42	62.10	95
16.0	18.595	90	42.87	174	28.612	81	24.30	222	7.180	75	23.56	234	25.686	92	63.05	116
26.0	18.685	139	41.13	191	28.693	131	22.08	237	7.255	127	21.22	250	25.778	141	64.21	133
Dez. 5.9	18.824	185	39.22	203	28.824	179	19.71	246	7.382	174	18.72	258	25.919	187	65.54	150
15.9	19.009	225	37.19	209	29.003	220	17.25	248	7.556	217	16.14	258	26.106	227	67.04	160
25.9	19.234	258	35.10	208	29.223	255	14.77	241	7.773	254	13.56	250	26.333	260	68.64	167
35.9	19.492		33.02		29.478		12.36		8.027		11.06		26.593		70.31	
Mittl. Ort	16.614		46.50		26.915		27.93		5.586		26.97		23.461		59.86	
sec δ, tg δ	1.007		+0.117		1.039		+0.281		1.054		+0.333		1.001		−0.056	

Mittlere Zeit Greenw.	588) ε Serpentis AR.		Dekl.		590) ζ Ursae min. AR.		Dekl.		589) β Triang. austr. AR.		Dekl.		593) ε Coron. bor. AR.		Dekl.	
1919	15ʰ 46ᵐ		+4° 43′		15ʰ 46ᵐ		+78° 2′		15ʰ 47ᵐ		−63° 10′		15ʰ 54ᵐ		+27° 6′	
Jan. 0.9	46.596	274	10.81	196	49.00	75	24.86	281	59.31	56	44.65	92	13.608	272	33.81	265
10.9	46.870	294	8.85	185	49.75	88	22.05	232	59.87	60	43.73	48	13.880	298	31.16	237
20.8	47.164	306	7.00	168	50.63	99	19.73	175	60.47	63	43.25	6	14.178	315	28.79	200
30.8	47.470	308	5.32	143	51.62	107	17.98	112	61.10	63	43.19	36	14.493	323	26.79	157
Feb. 9.8	47.778	305	3.89	115	52.69	109	16.86	44	61.73	64	43.55	76	14.816	322	25.22	107
19.7	48.083	294	2.74	81	53.78	108	16.42	23	62.37	61	44.31	113	15.138	314	24.15	55
März 1.7	48.377	278	1.93	47	54.86	103	16.65	89	62.98	59	45.44	145	15.452	298	23.60	2
11.7	48.655	259	1.46	11	55.89	95	17.54	152	63.57	56	46.89	174	15.750	279	23.58	50
21.7	48.914	238	1.35	21	56.84	83	19.06	206	64.13	51	48.63	198	16.029	253	24.08	98
31.6	49.152	213	1.56	52	57.67	69	21.12	252	64.64	46	50.61	217	16.282	226	25.06	141
Apr. 10.6	49.365	187	2.08	78	58.36	53	23.64	288	65.10	40	52.78	233	16.508	196	26.47	177
20.6	49.552	160	2.86	100	58.89	35	26.52	313	65.50	35	55.11	244	16.704	164	28.24	206
30.6	49.712	132	3.86	116	59.24	17	29.65	327	65.85	28	57.55	249	16.868	129	30.30	225
Mai 10.5	49.844	103	5.02	126	59.41	2	32.92	329	66.13	21	60.04	249	16.997	95	32.55	237
20.5	49.947	73	6.28	133	59.39	19	36.21	321	66.34	14	62.53	245	17.092	59	34.92	240
30.5	50.020	41	7.61	133	59.20	37	39.42	303	66.48	6	64.98	235	17.151	24	37.32	236
Juni 9.4	50.061	10	8.94	131	58.83	52	42.45	278	66.54	1	67.33	220	17.175	13	39.68	225
19.4	50.071	22	10.25	123	58.31	67	45.23	243	66.53	8	69.53	198	17.162	48	41.93	208
29.4	50.049	52	11.48	114	57.64	80	47.66	203	66.45	16	71.51	171	17.114	82	44.01	185
Juli 9.4	49.997	81	12.62	102	56.84	91	49.69	159	66.29	22	73.22	139	17.032	113	45.86	159
19.3	49.916	108	13.64	87	55.93	99	51.28	111	66.07	29	74.61	104	16.919	142	47.45	128
29.3	49.808	131	14.51	72	54.94	105	52.39	60	65.78	33	75.65	63	16.777	166	48.73	95
Aug. 8.3	49.677	148	15.23	54	53.89	110	52.99	7	65.45	37	76.28	20	16.611	184	49.68	60
18.3	49.529	160	15.77	36	52.79	111	53.06	44	65.08	38	76.48	24	16.427	197	50.28	24
28.2	49.369	164	16.13	17	51.68	110	52.62	96	64.70	40	76.24	68	16.230	201	50.52	14
Sept. 7.2	49.205	159	16.30	4	50.58	106	51.66	146	64.30	37	75.56	111	16.029	197	50.38	52
17.2	49.046	147	16.26	25	49.52	100	50.20	193	63.93	35	74.45	150	15.832	185	49.86	89
27.1	48.899	125	16.01	47	48.52	91	48.27	237	63.58	29	72.95	185	15.647	162	48.97	126
Okt. 7.1	48.774	95	15.54	71	47.61	79	45.90	276	63.29	22	71.10	213	15.485	132	47.71	162
17.1	48.679	56	14.83	94	46.82	66	43.14	311	63.07	14	68.97	232	15.353	92	46.09	195
27.1	48.623	13	13.89	118	46.16	50	40.03	338	62.93	4	66.65	242	15.261	46	44.14	226
Nov. 6.0	48.610	35	12.71	140	45.66	31	36.65	357	62.89	6	64.23	243	15.215	4	41.88	251
16.0	48.645	85	11.31	161	45.35	13	33.08	368	62.95	16	61.80	234	15.219	58	39.37	273
26.0	48.730	134	9.70	179	45.22	8	29.40	370	63.11	27	59.46	216	15.277	111	36.64	286
Dez. 6.0	48.864	180	7.91	191	45.30	28	25.70	359	63.38	36	57.30	189	15.388	163	33.78	293
15.9	49.044	221	6.00	199	45.58	47	22.11	339	63.74	45	55.41	156	15.551	209	30.85	289
25.9	49.265	254	4.01	199	46.05	65	18.72	306	64.19	51	53.85	117	15.760	249	27.96	278
35.9	49.519		2.02		46.70		15.66		64.70		52.68		16.009		25.18	
Mittl. Ort	46.611		14.24		55.17		39.51		59.53		55.38		13.991		41.76	
sec δ, tg δ	1.003		+0.083		4.827		+4.723		2.216		−1.978		1.123		+0.512	

Mittlere Zeit Greenw.	594) δ Scorpii AR.		594) δ Scorpii Dekl.		598) ϑ Draconis AR.		598) ϑ Draconis Dekl.		597) β Scorpii AR.		597) β Scorpii Dekl.		603) δ Ophiuchi AR.		603) δ Ophiuchi Dekl.	
	15h 55m	Diff.	−22° 23′	Diff.	16h 0m	Diff.	+58° 46′	Diff.	16h 0m	Diff.	−19° 35′	Diff.	16h 10m	Diff.	−3° 29′	Diff.
1919																
Jan. 0.9	32.552	300	29.21	80	20.327	350	40.27	306	43.522	292	2.84	90	5.913	263	13.25	159
10.9	32.852	321	30.01	93	20.677	406	37.21	262	43.814	313	3.74	100	6.176	287	14.84	155
20.8	33.173	334	30.94	101	21.083	446	34.59	211	44.127	325	4.74	105	6.463	300	16.39	145
30.8	33.507	337	31.95	105	21.529	471	32.48	150	44.452	331	5.79	107	6.763	307	17.84	131
Feb. 9.8	33.844	334	33.00	106	22.000	482	30.98	85	44.783	328	6.86	104	7.070	306	19.15	110
19.8	34.178	324	34.06	101	22.482	476	30.13	18	45.111	319	7.90	96	7.376	300	20.25	86
März 1.7	34.502	309	35.07	95	22.958	458	29.95	50	45.430	305	8.86	87	7.676	288	21.11	59
11.7	34.811	291	36.02	85	23.416	427	30.45	113	45.735	287	9.73	75	7.964	272	21.70	32
21.7	35.102	269	36.87	76	23.843	384	31.58	173	46.022	268	10.48	63	8.236	254	22.02	5
31.6	35.371	246	37.63	64	24.227	334	33.31	223	46.290	245	11.11	50	8.490	233	22.07	21
Apr. 10.6	35.617	220	38.27	54	24.561	275	35.54	265	46.535	220	11.61	37	8.723	210	21.86	43
20.6	35.837	193	38.81	45	24.836	213	38.19	296	46.755	194	11.98	28	8.933	186	21.43	61
30.6	36.030	164	39.26	36	25.049	146	41.15	317	46.949	165	12.26	18	9.119	158	20.82	76
Mai 10.5	36.194	133	39.62	29	25.195	79	44.32	326	47.114	135	12.44	9	9.277	130	20.06	87
20.5	36.327	101	39.91	21	25.274	11	47.58	326	47.249	104	12.53	4	9.407	100	19.19	93
30.5	36.428	66	40.12	16	25.285	55	50.84	315	47.353	70	12.57	2	9.507	68	18.26	96
Juni 9.5	36.494	31	40.28	10	25.230	120	53.99	295	47.423	36	12.55	6	9.575	36	17.30	96
19.4	36.525	4	40.38	3	25.110	180	56.94	267	47.459	0	12.49	11	9.611	2	16.34	92
29.4	36.521	40	40.41	3	24.930	236	59.61	233	47.459	36	12.38	15	9.613	32	15.42	86
Juli 9.4	36.481	73	40.38	9	24.694	286	61.94	193	47.423	69	12.23	19	9.581	64	14.56	80
19.3	36.408	105	40.29	17	24.408	329	63.87	149	47.354	99	12.04	24	9.517	94	13.76	72
29.3	36.303	131	40.12	25	24.079	363	65.36	101	47.255	128	11.80	30	9.423	120	13.04	62
Aug. 8.3	36.172	153	39.87	32	23.716	389	66.37	52	47.127	149	11.50	34	9.303	142	12.42	52
18.3	36.019	168	39.55	41	23.327	403	66.89	0	46.978	164	11.16	39	9.161	158	11.90	41
28.2	35.851	173	39.14	48	22.924	408	66.89	51	46.814	171	10.77	44	9.003	165	11.49	29
Sept. 7.2	35.678	170	38.66	53	22.516	399	66.38	103	46.643	169	10.33	46	8.838	164	11.20	17
17.2	35.508	157	38.13	57	22.117	378	65.35	151	46.474	156	9.87	48	8.674	156	11.03	2
27.2	35.351	133	37.56	57	21.739	344	63.84	198	46.318	134	9.39	46	8.518	136	11.01	13
Okt. 7.1	35.218	100	36.99	55	21.395	298	61.86	242	46.184	103	8.93	41	8.382	108	11.14	31
17.1	35.118	59	36.44	48	21.097	239	59.44	281	46.081	62	8.52	33	8.274	72	11.45	48
27.1	35.059	10	35.96	38	20.858	172	56.63	315	46.019	16	8.19	22	8.202	29	11.93	68
Nov. 6.0	35.049	42	35.58	23	20.686	94	53.48	341	46.003	35	7.97	7	8.173	18	12.61	87
16.0	35.091	96	35.35	7	20.592	12	50.07	359	46.038	89	7.90	10	8.191	68	13.48	107
26.0	35.187	149	35.28	13	20.580	73	46.48	368	46.127	141	8.00	28	8.259	118	14.55	125
Dez. 6.0	35.336	199	35.41	33	20.653	157	42.80	365	46.268	190	8.28	47	8.377	164	15.80	140
15.9	35.535	243	35.74	52	20.810	238	39.15	352	46.458	234	8.75	66	8.541	207	17.20	152
25.9	35.778	279	36.26	70	21.048	310	35.63	327	46.692	269	9.41	82	8.748	242	18.72	157
35.9	36.057		36.96		21.358		32.36		46.961		10.23		8.990		20.29	
Mittl. Ort	32.435		32.32		22.158		52.45		43.433		5.38		5.942		12.46	
sec δ, tg δ	1.082		−0.412		1.929		+1.650		1.061		−0.356		1.002		−0.061	

Mittlere Zeit Greenw.	606) 19 Ursae min. AR.		606) Dekl.		604) γ² Normae AR.		604) Dekl.		605) ε Ophiuchi AR.		605) Dekl.		608) τ Herculis AR.		608) Dekl.	
	16ʰ 12ᵐ		+76° 4′		16ʰ 13ᵐ		−49° 57′		16ʰ 14ᵐ		−4° 29′		16ʰ 17ᵐ		+46° 29′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.9	61.25	57	43.35	304	46.180	390	20.87	66	1.974	262	46.50	153	17.191	280	70.92	308
10.9	61.82	71	40.31	261	46.570	426	20.21	33	2.236	285	48.03	149	17.471	322	67.84	273
20.8	62.53	82	37.70	207	46.996	448	19.88	3	2.521	300	49.52	141	17.793	353	65.11	227
30.8	63.35	89	35.63	148	47.444	461	19.85	28	2.821	307	50.93	127	18.146	373	62.84	174
Feb. 9.8	64.24	94	34.15	82	47.905	462	20.13	56	3.128	307	52.20	108	18.519	382	61.10	114
19.8	65.18	95	33.33	14	48.367	454	20.69	81	3.435	301	53.28	85	18.901	380	59.96	50
März 1.7	66.13	92	33.19	54	48.821	441	21.50	104	3.736	289	54.13	59	19.281	370	59.46	13
11.7	67.05	87	33.73	118	49.262	419	22.54	122	4.025	275	54.72	33	19.651	349	59.59	76
21.7	67.92	78	34.91	177	49.681	394	23.76	138	4.300	258	55.05	7	20.000	321	60.35	135
31.6	68.70	68	36.68	228	50.075	363	25.14	151	4.558	236	55.12	18	20.321	288	61.70	186
Apr. 10.6	69.38	55	38.96	271	50.438	329	26.65	161	4.794	214	54.94	40	20.609	248	63.56	231
20.6	69.93	41	41.67	302	50.767	292	28.26	170	5.008	191	54.54	58	20.857	206	65.87	265
30.6	70.34	25	44.69	322	51.059	249	29.96	173	5.199	162	53.96	72	21.063	160	68.52	289
Mai 10.5	70.59	10	47.91	333	51.308	204	31.69	176	5.361	134	53.24	83	21.223	112	71.41	304
20.5	70.69	5	51.24	331	51.512	156	33.45	173	5.495	105	52.41	89	21.335	63	74.45	309
30.5	70.64	21	54.55	320	51.668	103	35.18	169	5.600	73	51.52	91	21.398	14	77.54	304
Juni 9.5	70.43	35	57.75	300	51.771	51	36.87	159	5.673	40	50.61	92	21.412	37	80.58	290
19.4	70.08	49	60.75	271	51.822	4	38.46	147	5.713	5	49.69	89	21.375	83	83.48	268
29.4	69.59	61	63.46	237	51.818	58	39.93	129	5.718	28	48.80	83	21.292	130	86.16	240
Juli 9.4	68.98	72	65.83	195	51.760	110	41.22	108	5.690	60	47.97	78	21.162	171	88.56	206
19.3	68.26	80	67.78	150	51.650	157	42.30	82	5.630	92	47.19	69	20.991	209	90.62	168
29.3	67.46	88	69.28	102	51.493	199	43.12	55	5.538	119	46.50	61	20.782	242	92.30	125
Aug. 8.3	66.58	93	70.30	51	51.294	232	43.67	23	5.419	141	45.89	52	20.540	267	93.55	79
18.3	65.65	96	70.81	1	51.062	256	43.90	10	5.278	156	45.37	41	20.273	284	94.34	33
28.2	64.69	96	70.80	53	50.806	267	43.80	43	5.122	166	44.96	31	19.989	292	94.67	15
Sept. 7.2	63.73	95	70.27	104	50.539	264	43.37	76	4.956	166	44.65	19	19.697	291	94.52	64
17.2	62.78	91	69.23	155	50.275	248	42.61	106	4.790	156	44.46	5	19.406	278	93.88	111
27.2	61.87	85	67.68	201	50.027	217	41.55	133	4.634	138	44.41	9	19.128	256	92.77	157
Okt. 7.1	61.02	75	65.67	244	49.810	174	40.22	155	4.496	110	44.50	25	18.872	221	91.20	201
17.1	60.27	65	63.23	284	49.636	117	38.67	171	4.386	75	44.75	42	18.651	178	89.19	241
27.1	59.62	52	60.39	316	49.519	51	36.96	180	4.311	32	45.17	61	18.473	126	86.78	277
Nov. 6.0	59.10	36	57.23	342	49.468	21	35.16	180	4.279	16	45.78	81	18.347	65	84.01	307
16.0	58.74	20	53.81	360	49.489	96	33.36	174	4.295	65	46.59	99	18.282	2	80.94	330
26.0	58.54	3	50.21	367	49.585	170	31.62	160	4.360	114	47.58	117	18.280	64	77.64	344
Dez. 6.0	58.51	15	46.54	366	49.755	241	30.02	139	4.474	162	48.75	133	18.344	129	74.20	349
15.9	58.66	32	42.88	351	49.996	305	28.63	113	4.636	205	50.08	144	18.473	192	70.71	343
25.9	58.98	48	39.37	325	50.301	358	27.50	85	4.841	240	51.52	150	18.665	248	67.28	325
35.9	59.46		36.12		50.659		26.65		5.081		53.02		18.913		64.03	
Mittl. Ort	66.83		55.33		46.267		29.07		2.010		46.03		18.309		80.24	
sec δ, tg δ	4.158		+4.035		1.554		−1.190		1.003		−0.079		1.453		+1.054	

Mittlere Zeit Greenw.	609) γ Herculis AR.		Dekl.		611) γ Apodis AR.		Dekl.		615) η Draconis AR.		Dekl.		616) α Scorpii AR.		Dekl.	
	$16^h\ 18^m$		+19° 20′		$16^h\ 20^m$		−78° 42′		$16^h\ 22^m$		+61° 41′		$16^h\ 24^m$		−26° 15′	
1919	s		″		s		″		s		″		s		″	
Jan. 0.9	20.421	249	27.86	245	56.68	106	52.75	189	51.14	34	39.97	320	26.273	288	8.30	41
10.9	20.670	277	25.41	226	57.74	119	50.86	145	51.48	40	36.77	281	26.561	314	8.71	56
20.9	20.947	295	23.15	197	58.93	129	49.41	98	51.88	45	33.96	231	26.875	331	9.27	67
30.8	21.242	306	21.18	160	60.22	135	48.43	49	52.33	49	31.65	173	27.206	341	9.94	75
Feb. 9.8	21.548	308	19.58	120	61.57	139	47.94	1	52.82	51	29.92	109	27.547	342	10.69	79
19.8	21.856	305	18.38	73	62.96	138	47.95	48	53.33	52	28.83	42	27.889	337	11.48	79
März 1.7	22.161	294	17.65	26	64.34	135	48.43	93	53.85	50	28.41	27	28.226	327	12.27	76
11.7	22.455	279	17.39	22	65.69	129	49.36	135	54.35	48	28.68	93	28.553	313	13.03	73
21.7	22.734	260	17.61	67	66.98	122	50.71	173	54.83	44	29.61	153	28.866	296	13.76	67
31.7	22.994	237	18.28	108	68.20	112	52.44	207	55.27	39	31.14	209	29.162	275	14.43	61
Apr. 10.6	23.231	213	19.36	143	69.32	100	54.51	236	55.66	33	33.23	254	29.437	252	15.04	55
20.6	23.444	184	20.79	172	70.32	87	56.87	259	55.99	27	35.77	290	29.689	226	15.59	50
30.6	23.628	155	22.51	194	71.19	71	59.46	278	56.26	19	38.67	315	29.915	198	16.09	44
Mai 10.6	23.783	124	24.45	207	71.90	55	62.24	289	56.45	12	41.82	330	30.113	167	16.53	40
20.5	23.907	90	26.52	214	72.45	38	65.13	295	56.57	5	45.12	333	30.280	134	16.93	36
30.5	23.997	56	28.66	214	72.83	20	68.08	292	56.62	3	48.45	327	30.414	98	17.29	33
Juni 9.5	24.053	21	30.80	208	73.03	1	71.00	284	56.59	10	51.72	311	30.512	61	17.62	28
19.4	24.074	15	32.88	195	73.04	17	73.84	268	56.49	18	54.83	286	30.573	22	17.90	25
29.4	24.059	50	34.83	178	72.87	35	76.52	245	56.31	24	57.69	256	30.595	18	18.15	18
Juli 9.4	24.009	83	36.61	157	72.52	51	78.97	213	56.07	30	60.25	218	30.577	57	18.33	12
19.4	23.926	114	38.18	132	72.01	67	81.10	177	55.77	35	62.43	175	30.520	93	18.45	5
29.3	23.812	141	39.50	106	71.34	79	82.87	133	55.42	39	64.18	129	30.427	124	18.50	5
Aug. 8.3	23.671	164	40.56	76	70.55	90	84.20	85	55.03	43	65.47	80	30.303	152	18.45	15
18.3	23.507	180	41.32	44	69.65	95	85.05	33	54.60	45	66.27	28	30.151	172	18.30	25
28.2	23.327	188	41.76	14	68.70	99	85.38	22	54.15	46	66.55	23	29.979	182	18.05	36
Sept. 7.2	23.139	189	41.90	20	67.71	98	85.16	75	53.69	45	66.32	76	29.797	185	17.69	46
17.2	22.950	180	41.70	53	66.73	93	84.41	128	53.24	45	65.56	126	29.612	175	17.23	54
27.2	22.770	162	41.17	86	65.80	83	83.13	177	52.79	40	64.30	175	29.437	156	16.69	60
Okt. 7.1	22.608	136	40.31	118	64.97	69	81.36	220	52.39	37	62.55	222	29.281	126	16.09	64
17.1	22.472	100	39.13	150	64.28	53	79.16	255	52.02	31	60.33	264	29.155	87	15.45	62
27.1	22.372	58	37.63	180	63.75	33	76.61	281	51.71	23	57.69	300	29.068	39	14.83	58
Nov. 6.1	22.314	10	35.83	206	63.42	11	73.80	297	51.48	16	54.69	330	29.029	13	14.25	49
16.0	22.304	40	33.77	228	63.31	12	70.83	300	51.32	7	51.39	354	29.042	68	13.76	36
26.0	22.344	92	31.49	246	63.43	35	67.83	294	51.25	2	47.85	366	29.110	123	13.40	21
Dez. 6.0	22.436	141	29.03	257	63.78	57	64.89	276	51.27	12	44.19	368	29.233	176	13.19	4
15.9	22.577	186	26.46	260	64.35	78	62.13	250	51.39	20	40.51	360	29.409	223	13.15	14
25.9	22.763	226	23.86	253	65.13	95	59.63	214	51.59	29	36.91	339	29.632	263	13.29	32
35.9	22.989		21.33		66.08		57.49		51.88		33.52		29.895		13.61	
Mittl. Ort	20.751		32.89		58.91		63.87		53.43		50.25		26.264		12.29	
sec δ, tg δ	1.060		+0.351		5.111		−5.013		2.109		+1.857		1.115		−0.493	

Mittlere Zeit Greenw.	618) β Herculis AR.		618) β Herculis Dekl.		619) A Draconis AR.		619) A Draconis Dekl.		621) σ Herculis AR.		621) σ Herculis Dekl.		622) ζ Ophiuchi AR.		622) ζ Ophiuchi Dekl.	
1919	16h 26m		+21° 39′		16h 28m		+68° 56′		16h 31m		+42° 35′		16h 32m		−10° 24′	
Jan. 0.9	43.826	243	49.81	254	4.57	39	26.15	321	28.468	256	64.59	308	41.744	254	13.66	117
10.9	44.069	271	47.27	233	4.96	49	22.94	281	28.724	297	61.51	276	41.998	280	14.83	119
20.9	44.340	293	44.94	204	5.45	55	20.13	231	29.021	327	58.75	235	42.278	298	16.02	116
30.8	44.633	305	42.90	166	6.00	61	17.82	173	29.348	349	56.40	184	42.576	307	17.18	107
Feb. 9.8	44.938	309	41.24	123	6.61	65	16.09	109	29.697	360	54.56	128	42.883	310	18.25	95
19.8	45.247	307	40.01	76	7.26	66	15.00	41	30.057	361	53.28	67	43.193	307	19.20	79
März 1.8	45.554	298	39.25	26	7.92	64	14.59	27	30.418	353	52.61	4	43.500	299	19.99	59
11.7	45.852	285	38.99	24	8.56	62	14.86	94	30.771	338	52.57	57	43.799	287	20.58	39
21.7	46.137	266	39.23	70	9.18	57	15.80	156	31.109	315	53.14	116	44.086	272	20.97	18
31.7	46.403	245	39.93	114	9.75	50	17.36	210	31.424	287	54.30	169	44.358	253	21.15	2
Apr. 10.6	46.648	220	41.07	150	10.25	42	19.46	257	31.711	253	55.99	213	44.611	233	21.13	19
20.6	46.868	192	42.57	182	10.67	33	22.03	293	31.964	215	58.12	251	44.844	211	20.94	35
30.6	47.060	163	44.39	203	11.00	24	24.96	318	32.179	174	60.63	277	45.055	184	20.59	46
Mai 10.6	47.223	130	46.42	219	11.24	14	28.14	333	32.353	131	63.40	295	45.239	157	20.13	54
20.5	47.353	97	48.61	227	11.38	4	31.47	337	32.484	85	66.35	302	45.396	127	19.59	61
30.5	47.450	62	50.88	227	11.42	7	34.84	330	32.569	39	69.37	300	45.523	94	18.98	63
Juni 9.5	47.512	25	53.15	220	11.35	16	38.14	315	32.608	8	72.37	289	45.617	60	18.35	64
19.5	47.537	12	55.35	208	11.19	26	41.29	291	32.600	54	75.26	272	45.677	24	17.71	62
29.4	47.525	47	57.43	190	10.93	34	44.20	258	32.546	99	77.98	246	45.701	12	17.09	59
Juli 9.4	47.478	82	59.33	168	10.59	43	46.78	221	32.447	140	80.44	215	45.689	47	16.50	56
19.4	47.396	115	61.01	142	10.16	49	48.99	178	32.307	179	82.59	179	45.642	81	15.94	52
29.3	47.281	143	62.43	114	9.67	54	50.77	131	32.128	213	84.38	139	45.561	111	15.42	47
Aug. 8.3	47.138	166	63.57	83	9.13	59	52.08	81	31.915	240	85.77	97	45.450	137	14.95	42
18.3	46.972	185	64.40	50	8.54	62	52.89	29	31.675	259	86.74	52	45.313	156	14.53	37
28.3	46.787	194	64.90	17	7.92	63	53.18	22	31.416	270	87.26	5	45.157	168	14.16	32
Sept. 7.2	46.593	196	65.07	18	7.29	63	52.96	75	31.146	272	87.31	42	44.989	171	13.84	26
17.2	46.397	188	64.89	53	6.66	60	52.21	126	30.874	263	86.89	88	44.818	164	13.58	19
27.2	46.209	172	64.36	88	6.06	57	50.95	176	30.611	245	86.01	134	44.654	148	13.39	10
Okt. 7.2	46.037	145	63.48	122	5.49	52	49.19	222	30.366	214	84.67	178	44.506	123	13.29	0
17.1	45.892	111	62.26	154	4.97	44	46.97	264	30.152	175	82.89	219	44.383	88	13.29	13
27.1	45.781	69	60.72	186	4.53	35	44.33	301	29.977	127	80.70	256	44.295	46	13.42	27
Nov. 6.1	45.712	22	58.86	213	4.18	25	41.32	332	29.850	71	78.14	288	44.249	1	13.69	43
16.0	45.690	29	56.73	237	3.93	15	38.00	354	29.779	12	75.26	313	44.250	51	14.12	59
26.0	45.719	80	54.36	255	3.78	2	34.46	367	29.767	51	72.13	330	44.301	101	14.71	75
Dez. 6.0	45.799	131	51.81	265	3.76	10	30.79	370	29.818	112	68.83	338	44.402	149	15.46	92
16.0	45.930	178	49.16	268	3.86	21	27.09	361	29.930	171	65.45	336	44.551	194	16.38	103
25.9	46.108	218	46.48	263	4.07	33	23.48	339	30.101	225	62.09	322	44.745	231	17.41	114
35.9	46.326		43.85		4.40		20.09		30.326		58.87		44.976		18.55	
Mittl. Ort	44.226		54.75		8.05		36.33		29.474		72.24		41.864		14.78	
sec δ, tg δ	1.076		+0.397		2.783		+2.597		1.359		+0.920		1.017		−0.184	

Mittlere Zeit Greenw.	625) α Triang. austr. AR.		625) Dekl.		626) η Herculis AR.		626) Dekl.	
	16ʰ 40ᵐ		−68° 52′		16ʰ 40ᵐ		+39° 4′	
1919	s		″		s		″	
Jan. 0.9	3.43	58	41.68	176	6.214	242	25.76	304
10.9	4.01	66	39.92	138	6.456	281	22.72	275
20.9	4.67	72	38.54	98	6.737	311	19.97	237
30.8	5.39	76	37.56	56	7.048	332	17.60	190
Feb. 9.8	6.15	77	37.00	15	7.380	344	15.70	135
19.8	6.92	78	36.85	27	7.724	347	14.35	76
März 1.8	7.70	77	37.12	66	8.071	341	13.59	16
11.7	8.47	74	37.78	102	8.412	327	13.43	45
21.7	9.21	71	38.80	135	8.739	308	13.88	103
31.7	9.92	66	40.15	165	9.047	283	14.91	155
Apr. 10.6	10.58	61	41.80	191	9.330	253	16.46	200
20.6	11.19	54	43.71	214	9.583	219	18.46	238
30.6	11.73	47	45.85	231	9.802	181	20.84	265
Mai 10.6	12.20	38	48.16	244	9.983	141	23.49	284
20.5	12.58	29	50.60	251	10.124	99	26.33	294
30.5	12.87	20	53.11	252	10.223	55	29.27	293
Juni 9.5	13.07	9	55.63	248	10.278	10	32.20	285
19.5	13.16	0	58.11	238	10.288	34	35.05	269
29.4	13.16	11	60.49	219	10.254	78	37.74	245
Juli 9.4	13.05	20	62.68	195	10.176	120	40.19	217
19.4	12.85	29	64.63	166	10.056	157	42.36	183
29.3	12.56	37	66.29	129	9.899	192	44.19	146
Aug. 8.3	12.19	44	67.58	88	9.707	218	45.65	104
18.3	11.75	48	68.46	43	9.489	241	46.69	62
28.3	11.27	51	68.89	4	9.248	252	47.31	17
Sept. 7.2	10.76	52	68.85	52	8.996	256	47.48	28
17.2	10.24	50	68.33	100	8.740	249	47.20	74
27.2	9.74	46	67.33	144	8.491	233	46.46	118
Okt. 7.2	9.28	39	65.89	184	8.258	205	45.28	162
17.1	8.89	30	64.05	217	8.053	169	43.66	203
27.1	8.59	19	61.88	243	7.884	123	41.63	239
Nov. 6.1	8.40	8	59.45	259	7.761	71	39.24	272
16.0	8.32	5	56.86	265	7.690	14	36.52	299
26.0	8.37	18	54.21	261	7.676	45	33.53	318
Dez. 6.0	8.55	31	51.60	247	7.721	104	30.35	327
16.0	8.86	41	49.13	226	7.825	160	27.08	328
25.9	9.27	53	46.87	197	7.985	211	23.80	316
35.9	9.80		44.90		8.196		20.64	
Mittl. Ort	4.41		51.29		7.116		32.27	
sec δ, tg δ	2.775		—2.589		1.288		+0.811	

Mittlere Zeit Greenw.	627) Gr. 2377 AR.		627) Dekl.		628) ε Scorpii AR.		628) Dekl.	
	16ʰ 43ᵐ		+56° 55′		16ʰ 44ᵐ		−34° 8′	
1919	s		″		s		″	
Jan. 0.9	43.606	277	26.21	329	54.698	289	45.20	13
10.9	43.883	337	22.92	295	54.987	322	45.07	4
20.9	44.220	387	19.97	250	55.309	343	45.11	21
30.8	44.607	423	17.47	197	55.652	358	45.32	35
Feb. 9.8	45.030	447	15.50	135	56.010	363	45.67	47
19.8	45.477	456	14.15	70	56.373	362	46.14	56
März 1.8	45.933	452	13.45	3	56.735	356	46.70	62
11.7	46.385	437	13.42	64	57.091	345	47.32	67
21.7	46.822	408	14.06	127	57.436	329	47.99	69
31.7	47.230	372	15.33	184	57.765	310	48.68	72
Apr. 10.6	47.602	326	17.17	234	58.075	288	49.40	73
20.6	47.928	273	19.51	273	58.363	262	50.13	75
30.6	48.201	216	22.24	303	58.625	233	50.88	75
Mai 10.6	48.417	154	25.27	323	58.858	201	51.63	75
20.5	48.571	90	28.50	332	59.059	165	52.38	76
30.5	48.661	25	31.82	330	59.224	126	53.14	74
Juni 9.5	48.686	41	35.12	319	59.350	85	53.88	72
19.5	48.645	104	38.31	301	59.435	40	54.60	68
29.4	48.541	164	41.32	273	59.475	4	55.28	61
Juli 9.4	48.377	222	44.05	240	59.471	48	55.89	53
19.4	48.155	272	46.45	201	59.423	90	56.42	42
29.3	47.883	316	48.46	157	59.333	128	56.84	29
Aug. 8.3	47.567	352	50.03	110	59.205	160	57.13	13
18.3	47.215	378	51.13	62	59.045	185	57.26	3
28.3	46.837	393	51.75	10	58.860	202	57.23	21
Sept. 7.2	46.444	397	51.85	41	58.658	207	57.02	40
17.2	46.047	388	51.44	92	58.451	201	56.62	56
27.2	45.659	366	50.52	143	58.250	183	56.06	71
Okt. 7.2	45.293	330	49.09	190	58.067	155	55.35	82
17.1	44.963	284	47.19	235	57.912	114	54.53	91
27.1	44.679	225	44.84	275	57.798	66	53.62	94
Nov. 6.1	44.454	157	42.09	309	57.732	11	52.68	92
16.0	44.297	81	39.00	336	57.721	47	51.76	86
26.0	44.216	2	35.64	355	57.768	107	50.90	75
Dez. 6.0	44.214	79	32.09	363	57.875	163	50.15	60
16.0	44.293	159	28.46	359	58.038	217	49.55	44
25.9	44.452	233	24.87	345	58.255	261	49.11	25
35.9	44.685		21.42		58.516		48.86	
Mittl. Ort	45.533		34.10		54.779		50.41	
sec δ, tg δ	1.832		+1.536		1.208		—0.678	

Mittlere Zeit Greenw.	629) 49 Herculis AR.		629) Dekl.		630) ζ² Scorpii AR.		630) Dekl.		631) ζ Arae AR.		631) Dekl.		633) κ Ophiuchi AR.		633) Dekl.	
1919	16ʰ 48ᵐ		+15° 6′		16ʰ 48ᵐ		−42° 13′		16ʰ 51ᵐ		−55° 51′		16ʰ 53ᵐ		+9° 29′	
Jan. 0.9	23.186	225	30.25	229	52.539	315	19.56	60	54.239	390	41.45	131	49.705	221	58.30	205
10.9	23.411	255	27.96	215	52.854	351	18.96	37	54.629	439	40.14	102	49.926	251	56.25	195
20.9	23.666	276	25.81	192	53.205	377	18.59	14	55.068	476	39.12	70	50.177	272	54.30	176
30.8	23.942	291	23.89	162	53.582	394	18.45	6	55.544	501	38.42	38	50.449	287	52.54	150
Feb. 9.8	24.233	299	22.27	125	53.976	401	18.51	26	56.045	514	38.04	7	50.736	295	51.04	118
19.8	24.532	300	21.02	83	54.377	402	18.77	44	56.559	517	37.97	23	51.031	295	49.86	82
März 1.8	24.832	295	20.19	39	54.779	397	19.21	58	57.076	512	38.20	52	51.326	292	49.04	44
11.7	25.127	285	19.80	5	55.176	385	19.79	71	57.588	499	38.72	77	51.618	284	48.60	3
21.7	25.412	271	19.85	49	55.561	368	20.50	82	58.087	478	39.49	102	51.902	270	48.57	35
31.7	25.683	254	20.34	89	55.929	348	21.32	92	58.565	452	40.51	122	52.172	255	48.92	72
Apr. 10.7	25.937	233	21.23	124	56.277	324	22.24	100	59.017	419	41.73	142	52.427	236	49.64	104
20.6	26.170	210	22.47	153	56.601	295	23.24	107	59.436	381	43.15	158	52.663	213	50.68	131
30.6	26.380	183	24.00	177	56.896	262	24.31	112	59.817	337	44.73	171	52.876	189	51.99	152
Mai 10.6	26.563	154	25.77	192	57.158	227	25.43	117	60.154	287	46.44	181	53.065	161	53.51	166
20.5	26.717	122	27.69	202	57.385	186	26.60	119	60.441	233	48.25	188	53.226	130	55.17	176
30.5	26.839	89	29.71	204	57.571	141	27.79	119	60.674	173	50.13	190	53.356	97	56.93	178
Juni 9.5	26.928	53	31.75	201	57.712	95	28.98	117	60.847	110	52.03	188	53.453	63	58.71	176
19.5	26.981	16	33.76	191	57.807	46	30.15	112	60.957	44	53.91	181	53.516	27	60.47	168
29.4	26.997	21	35.67	178	57.853	5	31.27	103	61.001	22	55.72	169	53.543	10	62.15	157
Juli 9.4	26.976	56	37.45	160	57.848	54	32.30	91	60.979	87	57.41	152	53.533	47	63.72	142
19.4	26.920	91	39.05	138	57.794	101	33.21	76	60.892	148	58.93	130	53.486	81	65.14	124
29.4	26.829	123	40.43	115	57.693	144	33.97	58	60.744	204	60.23	102	53.405	113	66.38	104
Aug. 8.3	26.706	148	41.58	89	57.549	180	34.55	35	60.540	252	61.25	71	53.292	140	67.42	82
18.3	26.558	169	42.47	61	57.369	210	34.90	12	60.288	288	61.96	37	53.152	161	68.24	59
28.3	26.389	183	43.08	33	57.159	227	35.02	13	60.000	311	62.33	1	52.991	176	68.83	35
Sept. 7.2	26.206	189	43.41	3	56.932	233	34.89	39	59.689	320	62.32	38	52.815	182	69.18	10
17.2	26.017	184	43.44	27	56.699	228	34.50	65	59.369	312	61.94	77	52.633	179	69.28	15
27.2	25.833	171	43.17	58	56.471	209	33.85	86	59.057	288	61.17	111	52.454	167	69.13	42
Okt. 7.2	25.662	148	42.59	88	56.262	177	32.99	107	58.769	247	60.06	143	52.287	145	68.71	68
17.1	25.514	117	41.71	118	56.085	133	31.92	121	58.522	191	58.63	170	52.142	115	68.03	95
27.1	25.397	78	40.53	147	55.952	81	30.71	132	58.331	124	56.93	189	52.027	76	67.08	119
Nov. 6.1	25.319	34	39.06	174	55.871	20	29.39	135	58.207	46	55.04	201	51.951	33	65.89	145
16.1	25.285	15	37.32	197	55.851	45	28.04	133	58.161	37	53.03	206	51.918	15	64.44	167
26.0	25.300	65	35.35	216	55.896	110	26.71	124	58.198	121	50.97	201	51.933	64	62.77	185
Dez. 6.0	25.365	114	33.19	230	56.006	174	25.47	111	58.319	204	48.96	190	51.997	112	60.92	199
16.0	25.479	159	30.89	236	56.180	232	24.36	93	58.523	280	47.06	171	52.109	157	58.93	208
25.9	25.638	200	28.53	235	56.412	283	23.43	73	58.803	348	45.35	148	52.266	197	56.85	209
35.9	25.838		26.18		56.695		22.70		59.151		43.87		52.463		54.76	
Mittl. Ort	23.541		32.92		52.693		25.86		54.651		49.35		49.996		59.86	
sec δ, tg δ	1.036		+0.270		1.350		−0.907		1.782		−1.475		1.014		+0.167	

Mittlere Zeit Greenw.	634) ε Herculis AR.	Diff.	Dekl.	Diff.	637) η Ophiuchi AR.	Diff.	Dekl.	Diff.
	16h 57m		+31° 2′		17h 5m		−15° 37′	
1919	s		″		s		″	
Jan. 0.9	10.696	217	37.28	286	43.721	234	30.30	74
10.9	10.913	255	34.42	264	43.955	265	31.04	78
20.9	11.168	283	31.78	232	44.220	286	31.82	80
30.9	11.451	304	29.46	191	44.506	301	32.62	75
Feb. 9.8	11.755	316	27.55	143	44.807	310	33.37	69
19.8	12.071	320	26.12	90	45.117	312	34.06	57
März 1.8	12.391	319	25.22	33	45.429	309	34.63	45
11.7	12.710	309	24.89	22	45.738	303	35.08	29
21.7	13.019	296	25.11	78	46.041	292	35.37	14
31.7	13.315	276	25.89	127	46.333	278	35.51	0
Apr. 10.7	13.591	252	27.16	172	46.611	262	35.51	14
20.6	13.843	225	28.88	209	46.873	242	35.37	24
30.6	14.068	193	30.97	238	47.115	219	35.13	32
Mai 10.6	14.261	159	33.35	259	47.334	192	34.81	39
20.6	14.420	122	35.94	269	47.526	162	34.42	41
30.5	14.542	83	38.63	273	47.688	130	34.01	43
Juni 9.5	14.625	43	41.36	268	47.818	94	33.58	42
19.5	14.668	0	44.04	256	47.912	56	33.16	39
29.4	14.668	41	46.60	238	47.968	17	32.77	38
Juli 9.4	14.627	81	48.98	213	47.985	22	32.39	34
19.4	14.546	119	51.11	184	47.963	61	32.05	31
29.4	14.427	153	52.95	152	47.902	96	31.74	29
Aug. 8.3	14.274	182	54.47	115	47.806	126	31.45	26
18.3	14.092	205	55.62	77	47.680	152	31.19	26
28.3	13.887	221	56.39	38	47.528	170	30.93	24
Sept. 7.3	13.666	227	56.77	4	47.358	178	30.69	24
17.2	13.439	224	56.73	45	47.180	176	30.45	21
27.2	13.215	211	56.28	86	47.004	165	30.24	19
Okt. 7.2	13.004	188	55.42	127	46.839	144	30.05	15
17.1	12.816	157	54.15	166	46.695	113	29.90	9
27.1	12.659	116	52.49	202	46.582	73	29.81	1
Nov. 6.1	12.543	69	50.47	234	46.509	28	29.80	10
16.1	12.474	17	48.13	262	46.481	22	29.90	22
26.0	12.457	37	45.51	283	46.503	72	30.12	34
Dez. 6.0	12.494	90	42.68	297	46.575	122	30.46	48
16.0	12.584	143	39.71	301	46.697	168	30.94	59
26.0	12.727	189	36.70	296	46.865	209	31.53	70
35.9	12.916		33.74		47.074		32.23	
Mittl. Ort	11.399		41.51		43.853		32.74	
sec δ, tg δ	1.167		+0.602		1.038		−0.280	

Mittlere Zeit Greenw.	639) ζ Draconis AR.	Diff.	Dekl.	Diff.	640) α Herculis AR.	Diff.	Dekl.	Diff.
	17h 8m		+65° 48′		17h 10m		+14° 28′	
1919	s		″		s		″	
Jan. 0.9	29.81	28	45.74	341	56.796	205	52.60	225
10.9	30.09	36	42.33	310	57.001	237	50.35	212
20.9	30.45	44	39.23	270	57.238	262	48.23	192
30.9	30.89	50	36.53	218	57.500	280	46.31	163
Feb. 9.8	31.39	54	34.35	160	57.780	291	44.68	128
19.8	31.93	57	32.75	94	58.071	295	43.40	87
März 1.8	32.50	58	31.81	26	58.366	295	42.53	45
11.7	33.08	57	31.55	43	58.661	290	42.08	0
21.7	33.65	55	31.98	107	58.951	279	42.08	43
31.7	34.20	50	33.05	168	59.230	265	42.51	83
Apr. 10.7	34.70	45	34.73	221	59.495	248	43.34	120
20.6	35.15	38	36.94	266	59.743	226	44.54	151
30.6	35.53	30	39.60	301	59.969	202	46.05	174
Mai 10.6	35.83	23	42.61	324	60.171	175	47.79	193
20.6	36.06	13	45.85	339	60.346	143	49.72	204
30.5	36.19	5	49.24	342	60.489	111	51.76	207
Juni 9.5	36.24	4	52.66	336	60.600	74	53.83	205
19.5	36.20	13	56.02	320	60.674	37	55.88	198
29.4	36.07	22	59.22	296	60.711	2	57.86	185
Juli 9.4	35.85	30	62.18	267	60.709	39	59.71	169
19.4	35.55	36	64.85	229	60.670	76	61.40	148
29.4	35.19	43	67.14	187	60.594	110	62.88	125
Aug. 8.3	34.76	48	69.01	141	60.484	140	64.13	100
18.3	34.28	52	70.42	92	60.344	163	65.13	72
28.3	33.76	55	71.34	41	60.181	181	65.85	45
Sept. 7.3	33.21	56	71.75	11	60.000	189	66.30	16
17.2	32.65	55	71.64	64	59.811	189	66.46	15
27.2	32.10	54	71.00	116	59.622	180	66.31	45
Okt. 7.2	31.56	49	69.84	166	59.442	159	65.86	74
17.1	31.07	45	68.18	214	59.283	132	65.12	105
27.1	30.62	37	66.04	257	59.151	95	64.07	133
Nov. 6.1	30.25	30	63.47	296	59.056	53	62.74	161
16.1	29.95	20	60.51	327	59.003	6	61.13	185
26.0	29.75	10	57.24	349	58.997	43	59.28	205
Dez. 6.0	29.65	0	53.75	363	59.040	91	57.23	220
16.0	29.65	11	50.12	364	59.131	138	55.03	228
26.0	29.76	21	46.48	354	59.269	179	52.75	229
35.9	29.97		42.94		59.448		50.46	
Mittl. Ort	32.95		51.54		57.195		53.99	
sec δ, tg δ	2.441		+2.227		1.033		+0.258	

Mittlere Zeit Greenw.	641) δ Herculis AR.	Diff.	641) δ Herculis Dekl.	Diff.	643) π Herculis AR.	Diff.	643) π Herculis Dekl.	Diff.
1919	$17^h\ 11^m$		$+24°\ 55'$		$17^h\ 12^m$		$+36°\ 53'$	
Jan. 0.9	41.648	203	59.37	268	12.602	205	55.23	305
10.9	41.851	238	56.69	250	12.807	246	52.18	282
20.9	42.089	266	54.19	222	13.053	280	49.36	249
30.9	42.355	286	51.97	187	13.333	307	46.87	208
Feb. 9.8	42.641	300	50.10	144	13.640	324	44.79	157
19.8	42.941	307	48.66	97	13.964	333	43.22	101
März 1.8	43.248	306	47.69	44	14.297	334	42.21	42
11.7	43.554	301	47.25	8	14.631	328	41.79	18
21.7	43.855	290	47.33	60	14.959	317	41.97	77
31.7	44.145	275	47.93	107	15.276	298	42.74	130
Apr. 10.7	44.420	254	49.00	149	15.574	274	44.04	179
20.6	44.674	232	50.49	186	15.848	246	45.83	220
30.6	44.906	204	52.35	215	16.094	213	48.03	253
Mai 10.6	45.110	173	54.50	235	16.307	176	50.56	276
20.6	45.283	140	56.85	248	16.483	137	53.32	291
30.5	45.423	103	59.33	253	16.620	94	56.23	295
Juni 9.5	45.526	64	61.86	250	16.714	50	59.18	292
19.5	45.590	25	64.36	241	16.764	5	62.10	282
29.4	45.615	16	66.77	226	16.769	41	64.92	262
Juli 9.4	45.599	55	69.03	205	16.728	85	67.54	238
19.4	45.544	94	71.08	179	16.643	126	69.92	208
29.4	45.450	129	72.87	150	16.517	164	72.00	174
Aug. 8.3	45.321	159	74.37	119	16.353	198	73.74	136
18.3	45.162	185	75.56	85	16.155	223	75.10	95
28.3	44.977	201	76.41	48	15.932	242	76.05	52
Sept. 7.3	44.776	210	76.89	12	15.690	251	76.57	8
17.2	44.566	210	77.01	26	15.439	250	76.65	37
27.2	44.356	200	76.75	64	15.189	240	76.28	82
Okt. 7.2	44.156	180	76.11	101	14.949	218	75.46	126
17.1	43.976	151	75.10	137	14.731	187	74.20	168
27.1	43.825	114	73.73	173	14.544	147	72.52	208
Nov. 6.1	43.711	70	72.00	204	14.397	99	70.44	243
16.1	43.641	21	69.96	231	14.298	47	68.01	274
26.0	43.620	29	67.65	253	14.251	10	65.27	297
Dez. 6.0	43.649	81	65.12	269	14.261	67	62.30	313
16.0	43.730	131	62.43	276	14.328	121	59.17	318
26.0	43.861	174	59.67	274	14.449	174	55.99	313
35.9	44.035		56.93		14.623		52.86	
Mittl. Ort	42.238		61.89		13.519		58.89	
sec δ, tg δ	1.103		+0.465		1.251		+0.751	

Mittlere Zeit Greenw.	644) θ Ophiuchi AR.	Diff.	644) θ Ophiuchi Dekl.	Diff.	645) β Arae AR.	Diff.	645) β Arae Dekl.	Diff.
1919	$17^h\ 17^m$		$-24°\ 55'$		$17^h\ 18^m$		$-55°\ 27'$	
Jan. 0.9	1.825	239	7.83	16	33.222	349	10.72	152
10.9	2.064	273	7.99	25	33.571	403	9.20	129
20.9	2.337	297	8.24	32	33.974	445	7.91	100
30.9	2.634	314	8.56	37	34.419	477	6.91	72
Feb. 9.8	2.948	325	8.93	38	34.896	497	6.19	42
19.8	3.273	330	9.31	37	35.393	507	5.77	15
März 1.8	3.603	329	9.68	34	35.900	509	5.62	14
11.7	3.932	323	10.02	29	36.409	502	5.76	39
21.7	4.255	314	10.31	23	36.911	489	6.15	65
31.7	4.569	302	10.54	19	37.400	468	6.80	88
Apr. 10.7	4.871	286	10.73	13	37.868	442	7.68	108
20.6	5.157	267	10.86	10	38.310	410	8.76	128
30.6	5.424	243	10.96	8	38.720	369	10.04	145
Mai 10.6	5.667	216	11.04	7	39.089	324	11.49	160
20.6	5.883	185	11.11	7	39.413	272	13.09	170
30.5	6.068	150	11.18	9	39.685	215	14.79	178
Juni 9.5	6.218	112	11.27	10	39.900	152	16.57	181
19.5	6.330	72	11.37	12	40.052	87	18.38	180
29.4	6.402	29	11.49	13	40.139	19	20.18	173
Juli 9.4	6.431	14	11.62	12	40.158	49	21.91	161
19.4	6.417	55	11.74	11	40.109	114	23.52	144
29.4	6.362	95	11.85	8	39.995	174	24.96	122
Aug. 8.3	6.267	128	11.93	3	39.821	228	26.18	93
18.3	6.139	158	11.96	4	39.593	271	27.11	63
28.3	5.981	177	11.92	11	39.322	301	27.74	27
Sept. 7.3	5.804	189	11.81	19	39.021	318	28.01	10
17.2	5.615	190	11.62	27	38.703	319	27.91	47
27.2	5.425	179	11.35	34	38.384	302	27.44	84
Okt. 7.2	5.246	158	11.01	40	38.082	269	26.60	118
17.1	5.088	126	10.61	42	37.813	221	25.42	148
27.1	4.962	86	10.19	43	37.592	159	23.94	173
Nov. 6.1	4.876	39	9.76	40	37.433	86	22.21	189
16.1	4.837	13	9.36	33	37.347	7	20.32	200
26.0	4.850	66	9.03	25	37.340	75	18.32	201
Dez. 6.0	4.916	118	8.78	14	37.415	157	16.31	196
16.0	5.034	168	8.64	2	37.572	235	14.35	184
26.0	5.202	212	8.62	9	37.807	305	12.51	166
35.9	5.414		8.71		38.112		10.85	
Mittl. Ort	1.976		11.52		33.749		17.63	
sec δ, tg δ	1.103		−0.465		1.763		−1.453	

Scheinbare Sternörter 1919

Mittlere Zeit Greenw.	648) δ Arae				651) α Arae				652) λ Scorpii				653) β Draconis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$17^h\ 23^m$		−60° 36′		$17^h\ 25^m$		−49° 48′		$17^h\ 28^m$		−37° 2′		$17^h\ 28^m$		+52° 21′	
Jan. 0.9	46.22	38	57.03	182	34.216	306	42.34	129	6.100	256	40.62	61	34.395	197	35.75	338
10.9	46.60	45	55.21	156	34.522	354	41.05	109	6.356	295	40.01	46	34.592	257	32.37	315
20.9	47.05	50	53.65	127	34.876	393	39.96	85	6.651	324	39.55	32	34.849	308	29.22	279
30.9	47.55	53	52.38	95	35.269	420	39.11	61	6.975	347	39.23	18	35.157	350	26.43	235
Feb. 9.8	48.08	57	51.43	62	35.689	438	38.50	37	7.322	361	39.05	5	35.507	381	24.08	179
19.8	48.65	58	50.81	30	36.127	449	38.13	14	7.683	369	39.00	6	35.888	402	22.29	119
März 1.8	49.23	57	50.51	2	36.576	451	37.99	8	8.052	371	39.06	15	36.290	410	21.10	54
11.8	49.80	58	50.53	33	37.027	447	38.07	29	8.423	367	39.21	23	36.700	409	20.56	12
21.7	50.38	56	50.86	62	37.474	436	38.36	49	8.790	359	39.44	30	37.109	397	20.68	77
31.7	50.94	54	51.48	91	37.910	421	38.85	67	9.149	347	39.74	38	37.506	376	21.45	138
Apr. 10.7	51.48	51	52.39	116	38.331	398	39.52	85	9.496	330	40.12	44	37.882	346	22.83	193
20.6	51.99	47	53.55	139	38.729	372	40.37	101	9.826	309	40.56	51	38.228	308	24.76	240
30.6	52.46	43	54.94	160	39.101	339	41.38	115	10.135	284	41.07	57	38.536	264	27.16	278
Mai 10.6	52.89	37	56.54	177	39.440	300	42.53	129	10.419	253	41.64	64	38.800	215	29.94	306
20.6	53.26	31	58.31	191	39.740	256	43.82	138	10.672	219	42.28	70	39.015	160	33.00	325
30.5	53.57	25	60.22	200	39.996	206	45.20	147	10.891	180	42.98	75	39.175	103	36.25	333
Juni 9.5	53.82	17	62.22	205	40.202	152	46.67	150	11.071	136	43.73	78	39.278	44	39.58	332
19.5	53.99	10	64.27	205	40.354	94	48.17	150	11.207	90	44.51	80	39.322	17	42.90	322
29.5	54.09	2	66.32	198	40.448	34	49.67	147	11.297	41	45.31	79	39.305	76	46.12	304
Juli 9.4	54.11	6	68.30	185	40.482	26	51.14	138	11.338	9	46.10	76	39.229	134	49.16	277
19.4	54.05	13	70.15	168	40.456	85	52.52	124	11.329	56	46.86	69	39.095	188	51.93	246
29.4	53.92	21	71.83	142	40.371	140	53.76	107	11.273	102	47.55	58	38.907	237	54.39	209
Aug. 8.3	53.71	26	73.25	113	40.231	188	54.83	83	11.171	144	48.13	46	38.670	280	56.48	166
18.3	53.45	32	74.38	78	40.043	229	55.66	57	11.027	176	48.59	30	38.390	314	58.14	121
28.3	53.13	35	75.16	39	39.814	259	56.23	27	10.851	202	48.89	11	38.076	338	59.35	73
Sept. 7.3	52.78	38	75.55	1	39.555	275	56.50	5	10.649	217	49.00	9	37.738	353	60.08	23
17.2	52.40	37	75.54	44	39.280	277	56.45	37	10.432	218	48.91	28	37.385	356	60.31	28
27.2	52.03	36	75.10	85	39.003	265	56.08	69	10.214	210	48.63	49	37.029	345	60.03	80
Okt. 7.2	51.67	32	74.25	124	38.738	237	55.39	99	10.004	188	48.14	66	36.684	324	59.23	129
17.2	51.35	27	73.01	158	38.501	196	54.40	125	9.816	154	47.48	82	36.360	289	57.94	177
27.1	51.08	21	71.43	187	38.305	142	53.15	146	9.662	110	46.66	93	36.071	244	56.17	223
Nov. 6.1	50.87	11	69.56	208	38.163	79	51.69	161	9.552	58	45.73	99	35.827	188	53.94	264
16.1	50.76	3	67.48	222	38.084	9	50.08	170	9.494	2	44.74	102	35.639	126	51.30	298
26.0	50.73	6	65.26	227	38.075	63	48.38	172	9.492	59	43.72	100	35.513	57	48.32	326
Dez. 6.0	50.79	16	62.99	224	38.138	136	46.66	167	9.551	118	42.72	92	35.456	14	45.06	344
16.0	50.95	25	60.75	214	38.274	205	44.99	156	9.669	173	41.80	82	35.470	86	41.62	351
26.0	51.20	33	58.61	195	38.479	267	43.43	141	9.842	224	40.98	69	35.556	155	38.11	348
35.9	51.53		56.66		38.746		42.02		10.066		40.29		35.711		34.63	
Mittl. Ort	46.97		64.15		34.624		48.50		6.335		45.50		36.108		38.95	
sec δ, tg δ	2.038		−1.776		1.550		−1.184		1.253		−0.755		1.637		+1.297	

Mittlere Zeit Greenw.	656) α Ophiuchi				654) ϑ Scorpii				658) ξ Serpentis				663) ι Herculis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$17^h\ 31^m$		+12° 36′		$17^h\ 31^m$		−42° 56′		$17^h\ 32^m$		−15° 20′		$17^h\ 37^m$		+46° 2′	
	s		″		s		″		s		″		s		″	
Jan. 0.9	10.010	188	64.52	214	29.429	271	46.40	97	56.640	209	52.76	63	9.314	179	53.25	329
10.9	10.198	221	62.38	205	29.700	313	45.43	79	56.849	242	53.39	66	9.493	232	49.96	308
20.9	10.419	248	60.33	185	30.013	347	44.64	62	57.091	268	54.05	67	9.725	277	46.88	277
30.9	10.667	269	58.48	160	30.360	372	44.02	43	57.359	286	54.72	62	10.002	314	44.11	234
Feb. 9.8	10.936	282	56.88	128	30.732	389	43.59	26	57.645	298	55.34	54	10.316	341	41.77	183
19.8	11.218	290	55.60	90	31.121	398	43.33	9	57.943	306	55.88	42	10.657	360	39.94	126
März 1.8	11.508	293	54.70	49	31.519	401	43.24	6	58.249	307	56.30	29	11.017	369	38.68	62
11.8	11.801	290	54.21	7	31.920	398	43.30	21	58.556	305	56.59	15	11.386	369	38.06	1
21.7	12.091	284	54.14	36	32.318	390	43.51	33	58.861	299	56.74	1	11.755	362	38.07	65
31.7	12.375	273	54.50	76	32.708	377	43.84	46	59.160	290	56.73	16	12.117	345	38.72	124
Apr. 10.7	12.648	259	55.26	112	33.085	360	44.30	58	59.450	276	56.57	28	12.462	321	39.96	179
20.7	12.907	241	56.38	142	33.445	337	44.88	70	59.726	260	56.29	39	12.783	292	41.75	226
30.6	13.148	218	57.80	168	33.782	310	45.58	81	59.986	239	55.90	46	13.075	255	44.01	264
Mai 10.6	13.366	193	59.48	186	34.092	277	46.39	91	60.225	215	55.44	52	13.330	214	46.65	293
20.6	13.559	163	61.34	197	34.369	238	47.30	99	60.440	187	54.92	54	13.544	168	49.58	312
30.5	13.722	131	63.31	204	34.607	196	48.29	106	60.627	154	54.38	52	13.712	118	52.70	323
Juni 9.5	13.853	95	65.35	201	34.803	148	49.35	111	60.781	119	53.86	51	13.830	67	55.93	323
19.5	13.948	57	67.36	196	34.951	98	50.46	113	60.900	81	53.35	47	13.897	13	59.16	315
29.5	14.005	18	69.32	185	35.049	44	51.59	111	60.981	40	52.88	42	13.910	40	62.31	299
Juli 9.4	14.023	21	71.17	169	35.093	9	52.70	106	61.021	0	52.46	37	13.870	92	65.30	275
19.4	14.002	60	72.86	150	35.084	63	53.76	96	61.021	42	52.09	32	13.778	143	68.05	246
29.4	13.942	95	74.36	128	35.021	112	54.72	84	60.979	79	51.77	27	13.635	188	70.51	211
Aug. 8.4	13.847	128	75.64	105	34.909	157	55.56	66	60.900	114	51.50	23	13.447	228	72.62	171
18.3	13.719	154	76.69	80	34.752	194	56.22	46	60.786	143	51.27	20	13.219	261	74.33	128
28.3	13.565	175	77.49	52	34.558	222	56.68	23	60.643	165	51.07	18	12.958	286	75.61	82
Sept. 7.3	13.390	186	78.01	25	34.336	238	56.91	3	60.478	178	50.89	16	12.672	301	76.43	35
17.2	13.204	189	78.26	3	34.098	241	56.88	29	60.300	181	50.73	15	12.371	305	76.78	15
27.2	13.015	183	78.23	32	33.857	232	56.59	54	60.119	174	50.58	12	12.066	298	76.63	63
Okt. 7.2	12.832	166	77.91	61	33.625	210	56.05	78	59.945	157	50.46	8	11.768	280	76.00	112
17.2	12.666	141	77.30	90	33.415	173	55.27	100	59.788	129	50.38	4	11.488	250	74.88	160
27.1	12.525	107	76.40	117	33.242	126	54.27	116	59.659	95	50.34	3	11.238	210	73.28	204
Nov. 6.1	12.418	67	75.23	144	33.116	71	53.11	127	59.564	51	50.37	11	11.028	162	71.24	245
16.1	12.351	22	73.79	169	33.045	9	51.84	133	59.513	4	50.48	20	10.866	105	68.79	281
26.1	12.329	25	72.10	189	33.036	55	50.51	134	59.509	45	50.68	31	10.761	45	65.98	308
Dez. 6.0	12.354	74	70.21	204	33.091	119	49.17	129	59.554	94	50.99	42	10.716	19	62.90	328
16.0	12.428	119	68.17	215	33.210	181	47.88	119	59.648	141	51.41	52	10.735	81	59.62	338
26.0	12.547	161	66.02	217	33.391	235	46.69	105	59.789	183	51.93	60	10.816	142	56.24	337
35.9	12.708		63.85		33.626		45.64		59.972		52.53		10.958		52.87	
Mittl. Ort	10.419		64.68		29.738		51.76		56.831		55.42		10.660		55.35	
sec δ, tg δ	1.025		+0.224		1.366		−0.931		1.037		−0.274		1.441		+1.037	

Mittlere Zeit Greenw.	664) ω Draconis				661) η Pavonis				665) β Ophiuchi				667) μ Herculis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	17h 37m		+68° 47′		17h 37m		−64° 40′		17h 39m		+4° 35′		17h 43m		+27° 45′	
Jan. 1.0	21.58	22	41.16	347	45.67	40	65.39	213	27.899	185	61.06	172	16.534	170	61.33	278
10.9	21.80	33	37.69	325	46.07	47	63.26	188	28.084	217	59.34	165	16.704	209	58.55	264
20.9	22.13	42	34.44	289	46.54	54	61.38	158	28.301	244	57.69	152	16.913	242	55.91	239
30.9	22.55	51	31.55	244	47.08	59	59.80	127	28.545	264	56.17	133	17.155	269	53.52	206
Feb. 9.8	23.06	57	29.11	189	47.67	62	58.53	92	28.809	277	54.84	107	17.424	287	51.46	163
19.8	23.63	62	27.22	127	48.29	65	57.61	57	29.086	287	53.77	77	17.711	301	49.83	116
März 1.8	24.25	64	25.95	60	48.94	66	57.04	23	29.373	290	53.00	44	18.012	307	48.67	63
11.8	24.89	64	25.35	8	49.60	66	56.81	12	29.663	289	52.56	8	18.319	308	48.04	9
21.7	25.53	63	25.43	74	50.26	64	56.93	45	29.952	283	52.48	28	18.627	303	47.95	46
31.7	26.16	59	26.17	138	50.90	62	57.38	76	30.235	275	52.76	60	18.930	292	48.41	96
Apr. 10.7	26.75	55	27.55	195	51.52	59	58.14	106	30.510	263	53.36	91	19.222	277	49.37	143
20.7	27.30	48	29.50	245	52.11	56	59.20	135	30.773	246	54.27	116	19.499	257	50.80	183
30.6	27.78	39	31.95	285	52.67	50	60.55	159	31.019	227	55.43	138	19.756	232	52.63	217
Mai 10.6	28.17	31	34.80	315	53.17	44	62.14	180	31.246	202	56.81	152	19.988	202	54.80	242
20.6	28.48	21	37.95	335	53.61	38	63.94	198	31.448	175	58.33	162	20.190	170	57.22	259
30.5	28.69	11	41.30	346	53.99	30	65.92	212	31.623	143	59.95	166	20.360	133	59.81	268
Juni 9.5	28.80	1	44.76	346	54.29	22	68.04	219	31.766	109	61.61	166	20.493	93	62.49	269
19.5	28.81	9	48.22	336	54.51	13	70.23	221	31.875	72	63.27	159	20.586	52	65.18	263
29.5	28.72	20	51.58	319	54.64	3	72.44	218	31.947	32	64.86	151	20.638	8	67.81	250
Juli 9.4	28.52	29	54.77	294	54.67	5	74.62	207	31.979	6	66.37	138	20.646	35	70.31	230
19.4	28.23	38	57.71	261	54.62	14	76.69	190	31.973	46	67.75	122	20.611	77	72.61	207
29.4	27.85	46	60.32	223	54.48	22	78.59	166	31.927	82	68.97	106	20.534	117	74.68	178
Aug. 8.4	27.39	52	62.55	180	54.26	30	80.25	136	31.845	115	70.03	87	20.417	151	76.46	146
18.3	26.87	58	64.35	134	53.96	36	81.61	101	31.730	144	70.90	68	20.266	181	77.92	112
28.3	26.29	62	65.69	84	53.60	40	82.62	60	31.586	164	71.58	47	20.085	203	79.04	74
Sept. 7.3	25.67	64	66.53	33	53.20	43	83.22	17	31.422	178	72.05	27	19.882	218	79.78	36
17.2	25.03	65	66.86	20	52.77	44	83.39	28	31.244	182	72.32	5	19.664	222	80.14	3
27.2	24.38	63	66.66	73	52.33	43	83.11	73	31.062	177	72.37	17	19.442	218	80.11	44
Okt. 7.2	23.75	60	65.93	125	51.90	39	82.38	117	30.885	161	72.20	39	19.224	202	79.67	84
17.2	23.15	56	64.68	175	51.51	34	81.21	155	30.724	137	71.81	61	19.022	178	78.83	123
27.1	22.59	49	62.93	222	51.17	26	79.66	190	30.587	105	71.20	83	18.844	145	77.60	160
Nov. 6.1	22.10	41	60.71	266	50.91	17	77.76	217	30.482	65	70.37	105	18.699	104	76.00	196
16.1	21.69	31	58.05	302	50.74	8	75.59	235	30.417	21	69.32	126	18.595	57	74.04	226
26.1	21.38	20	55.03	331	50.66	4	73.24	245	30.396	25	68.06	143	18.538	8	71.78	251
Dez. 6.0	21.18	9	51.72	350	50.70	14	70.79	247	30.421	72	66.63	158	18.530	43	69.27	271
16.0	21.09	3	48.22	360	50.84	24	68.32	239	30.493	118	65.05	169	18.573	93	66.56	282
26.0	21.12	15	44.62	356	51.08	34	65.93	224	30.611	158	63.36	172	18.666	141	63.74	283
35.9	21.27		41.06		51.42		63.69		30.769		61.64		18.807		60.91	
Mittl. Ort	25.39		43.88		46.72		72.16		28.225		60.14		17.239		61.93	
sec δ, tg δ	2.765		+2.578		2.339		−2.114		1.003		+0.080		1.130		+0.526	

Mittlere Zeit Greenw.	670) ψ Draconis AR.	Diff.	Dekl.	Diff.	671) ξ Draconis AR.	Diff.	Dekl.	Diff.	675) 35 Draconis AR.	Diff.	Dekl.	Diff.	672) θ Herculis AR.	Diff.	Dekl.	Diff.
1919	$17^h\ 43^m$		+72° 11′		$17^h\ 52^m$		+56° 52′		$17^h\ 52^m$		+76° 58′		$17^h\ 53^m$		+37° 15′	
Jan. 1.0	17.78	22	18.19	349	5.566	164	64.89	346	57.50	22	26.97	344	27.491	158	37.49	307
10.9	18.00	35	14.70	327	5.730	235	61.43	328	57.72	40	23.53	326	27.649	204	34.42	292
20.9	18.35	47	11.43	294	5.965	298	58.15	297	58.12	56	20.27	296	27.853	243	31.50	266
30.9	18.82	57	8.49	249	6.263	352	55.18	255	58.68	71	17.31	253	28.096	275	28.84	229
Feb. 9.9	19.39	65	6.00	196	6.615	394	52.63	203	59.39	83	14.78	202	28.371	301	26.55	183
19.8	20.04	70	4.04	134	7.009	425	50.60	143	60.22	92	12.76	143	28.672	319	24.72	131
März 1.8	20.74	75	2.70	69	7.434	443	49.17	80	61.14	98	11.33	78	28.991	329	23.41	73
11.8	21.49	75	2.01	0	7.877	450	48.37	12	62.12	100	10.55	11	29.320	333	22.68	14
21.7	22.24	73	2.01	66	8.327	444	48.25	54	63.12	98	10.44	55	29.653	329	22.54	46
31.7	22.97	70	2.67	129	8.771	428	48.79	117	64.10	94	10.99	118	29.982	319	23.00	103
Apr. 10.7	23.67	64	3.96	187	9.199	399	49.96	176	65.04	87	12.17	176	30.301	302	24.03	156
20.7	24.31	56	5.83	237	9.598	362	51.72	227	65.91	76	13.93	227	30.603	281	25.59	201
30.6	24.87	47	8.20	279	9.960	316	53.99	270	66.67	63	16.20	270	30.884	252	27.60	240
Mai 10.6	25.34	36	10.99	310	10.276	262	56.69	303	67.30	49	18.90	305	31.136	220	30.00	269
20.6	25.70	25	14.09	331	10.538	204	59.72	327	67.79	34	21.95	325	31.356	183	32.69	290
30.6	25.95	13	17.40	343	10.742	139	62.99	339	68.13	17	25.20	340	31.539	141	35.59	302
Juni 9.5	26.08	0	20.83	345	10.881	73	66.38	344	68.30	1	28.60	344	31.680	97	38.61	305
19.5	26.08	12	24.28	336	10.954	5	69.82	338	68.31	16	32.04	338	31.777	50	41.66	300
29.5	25.96	23	27.64	320	10.959	65	73.20	323	68.15	32	35.42	323	31.827	1	44.66	287
Juli 9.4	25.73	35	30.84	295	10.894	130	76.43	302	67.83	48	38.65	301	31.828	46	47.53	267
19.4	25.38	45	33.79	264	10.764	193	79.45	272	67.35	62	41.66	272	31.782	92	50.20	241
29.4	24.93	55	36.43	228	10.571	252	82.17	237	66.73	75	44.38	237	31.690	136	52.61	211
Aug. 8.4	24.38	62	38.71	185	10.319	303	84.54	197	65.98	85	46.75	197	31.554	174	54.72	175
18.3	23.76	69	40.56	140	10.016	345	86.51	153	65.13	95	48.72	153	31.380	208	56.47	137
28.3	23.07	74	41.96	90	9.671	378	88.04	105	64.18	101	50.25	106	31.172	232	57.84	96
Sept. 7.3	22.33	77	42.86	40	9.293	398	89.09	55	63.17	106	51.31	55	30.940	250	58.80	50
17.3	21.56	78	43.26	13	8.895	408	89.64	3	62.11	108	51.86	4	30.690	257	59.30	6
27.2	20.78	76	43.13	65	8.487	402	89.67	49	61.03	106	51.90	49	30.433	254	59.36	39
Okt. 7.2	20.02	73	42.48	118	8.085	385	89.18	101	59.97	103	51.41	101	30.179	239	58.97	84
17.2	19.29	68	41.30	168	7.700	354	88.17	152	58.94	97	50.40	151	29.940	215	58.13	130
27.1	18.61	61	39.62	216	7.346	309	86.65	200	57.97	88	48.89	199	29.725	182	56.83	172
Nov. 6.1	18.00	51	37.46	260	7.037	254	84.65	245	57.09	76	46.90	244	29.543	139	55.11	211
16.1	17.49	41	34.86	297	6.783	189	82.20	284	56.33	62	44.46	283	29.404	91	53.00	247
26.1	17.08	28	31.89	327	6.594	117	79.36	315	55.71	45	41.63	314	29.313	38	50.53	276
Dez. 6.0	16.80	14	28.62	348	6.477	40	76.21	339	55.26	28	38.49	337	29.275	17	47.77	298
16.0	16.66	1	25.14	358	6.437	38	72.82	352	54.98	9	35.12	350	29.292	72	44.79	310
26.0	16.65	13	21.56	357	6.475	117	69.30	352	54.89	10	31.62	351	29.364	125	41.69	312
36.0	16.78		17.99		6.592		65.78		54.99		28.11		29.489		38.57	
Mittl. Ort	22.52		20.26		7.675		65.86		64.37		27.92		28.482		37.78	
sec δ, tg δ	3.269		+3.113		1.830		+1.533		4.437		+4.323		1.256		+0.761	

Mittlere Zeit Greenw.	673) ν Ophiuchi AR.		Dekl.		676) γ Draconis AR.		Dekl.		677) 67 Ophiuchi AR.		Dekl.		679) γ Sagittarii AR.		Dekl.	
1919	$17^h 54^m$		$-9° 45'$		$17^h 54^m$		$+51° 29'$		$17^h 56^m$		$+2° 55'$		$18^h 0^m$		$-30° 25'$	
	s		"		s		"		s		"		s		"	
Jan. 1.0	33.752	183	50.62	87	41.801	158	51.74	340	34.940	170	65.53	158	35.959	206	31.07	40
10.9	33.935	217	51.49	87	41.959	218	48.34	322	35.110	204	63.95	154	36.165	244	30.67	33
20.9	34.152	244	52.36	83	42.177	272	45.12	293	35.314	232	62.41	142	36.409	276	30.34	25
30.9	34.396	265	53.19	74	42.449	318	42.19	252	35.546	253	60.99	124	36.685	301	30.09	19
Feb. 9.9	34.661	281	53.93	61	42.767	355	39.67	202	35.799	270	59.75	101	36.986	319	29.90	14
19.8	34.942	291	54.54	44	43.122	381	37.65	144	36.069	281	58.74	73	37.305	331	29.76	12
März 1.8	35.233	296	54.98	25	43.503	398	36.21	81	36.350	287	58.01	41	37.636	338	29.64	9
11.8	35.529	297	55.23	4	43.901	403	35.40	16	36.637	289	57.60	8	37.974	341	29.55	9
21.7	35.826	295	55.27	17	44.304	399	35.24	50	36.926	287	57.52	27	38.315	339	29.46	7
31.7	36.121	288	55.10	37	44.703	385	35.74	112	37.213	280	57.79	59	38.654	333	29.39	6
Apr. 10.7	36.409	279	54.73	55	45.088	362	36.86	170	37.493	271	58.38	87	38.987	323	29.33	5
20.7	36.688	265	54.18	69	45.450	331	38.56	220	37.764	257	59.25	113	39.310	309	29.28	1
30.6	36.953	248	53.49	81	45.781	293	40.76	263	38.021	239	60.38	133	39.619	289	29.27	3
Mai 10.6	37.201	225	52.68	88	46.074	247	43.39	295	38.260	217	61.71	148	39.908	265	29.30	9
20.6	37.426	199	51.80	93	46.321	197	46.34	320	38.477	190	63.19	158	40.173	235	29.39	15
30.6	37.625	169	50.87	92	46.518	142	49.54	332	38.667	160	64.77	161	40.408	202	29.54	23
Juni 9.5	37.794	134	49.95	90	46.660	84	52.86	337	38.827	125	66.38	161	40.610	162	29.77	29
19.5	37.928	97	49.05	85	46.744	24	56.23	332	38.952	89	67.99	156	40.772	119	30.06	35
29.5	38.025	56	48.20	77	46.768	36	59.55	318	39.041	49	69.55	147	40.891	73	30.41	41
Juli 9.4	38.081	15	47.43	69	46.732	96	62.73	297	39.090	9	71.02	134	40.964	26	30.82	43
19.4	38.096	25	46.74	60	46.636	153	65.70	269	39.099	31	72.36	121	40.990	21	31.25	44
29.4	38.071	66	46.14	50	46.483	205	68.39	235	39.068	70	73.57	104	40.969	68	31.69	43
Aug. 8.4	38.005	101	45.64	41	46.278	251	70.74	195	38.998	105	74.61	86	40.901	110	32.12	38
18.3	37.904	132	45.23	33	46.027	291	72.69	153	38.893	135	75.47	68	40.791	146	32.50	30
28.3	37.772	156	44.90	24	45.736	321	74.22	107	38.758	159	76.15	48	40.645	175	32.80	20
Sept. 7.3	37.616	173	44.66	16	45.415	341	75.29	57	38.599	174	76.63	29	40.470	194	33.00	9
17.3	37.443	179	44.50	9	45.074	350	75.86	7	38.425	181	76.92	10	40.276	204	33.09	5
27.2	37.264	176	44.41	1	44.724	346	75.93	44	38.244	179	77.02	11	40.072	201	33.04	18
Okt. 7.2	37.088	163	44.40	8	44.378	329	75.49	95	38.065	166	76.91	32	39.871	187	32.86	31
17.2	36.925	140	44.48	17	44.049	302	74.54	145	37.899	144	76.59	52	39.684	162	32.55	42
27.1	36.785	108	44.65	26	43.747	263	73.09	193	37.755	114	76.07	73	39.522	125	32.13	52
Nov. 6.1	36.677	69	44.91	37	43.484	212	71.16	237	37.641	77	75.34	93	39.397	82	31.61	58
16.1	36.608	25	45.28	49	43.272	155	68.79	275	37.564	34	74.41	112	39.315	32	31.03	61
26.1	36.583	22	45.77	60	43.117	91	66.04	307	37.530	12	73.29	130	39.283	21	30.42	61
Dez. 6.0	36.605	69	46.37	71	43.026	22	62.97	330	37.542	57	71.99	144	39.304	75	29.81	57
16.0	36.674	114	47.08	80	43.004	47	59.67	344	37.599	102	70.55	154	39.379	126	29.24	52
26.0	36.788	157	47.88	86	43.051	115	56.23	346	37.701	144	69.01	159	39.505	175	28.72	44
36.0	36.945		48.74		43.166		52.77		37.845		67.42		39.680		28.28	
Mittl. Ort	33.996		53.05		43.487		52.34		35.270		63.88		36.219		34.85	
sec δ, tg δ	1.015		−0.172		1.606		+1.257		1.001		+0.051		1.160		−0.587	

Mittlere Zeit Greenw.	680) 72 Ophiuchi AR.		Dekl.		681) ο Herculis AR.		Dekl.		682) μ Sagittarii AR.		Dekl.		688) η Serpentis AR.		Dekl.	
1919	18h 3m		+9° 32′		18h 4m		+28° 44′		18h 8m		−21° 4′		18h 17m		−2° 55′	
Jan. 1.0	30.139	159	66.32	191	22.204	148	62.41	278	54.886	183	49.33	12	6.789	154	12.84	121
10.9	30.298	194	64.41	185	22.352	189	59.63	266	55.069	218	49.45	16	6.943	189	14.05	119
20.9	30.492	223	62.56	170	22.541	225	56.97	244	55.287	249	49.61	17	7.132	219	15.24	110
30.9	30.715	247	60.86	149	22.766	254	54.53	213	55.536	273	49.78	17	7.351	242	16.34	97
Feb. 9.9	30.962	265	59.37	121	23.020	277	52.40	172	55.809	290	49.95	12	7.593	260	17.31	79
19.8	31.227	278	58.16	87	23.297	294	50.68	126	56.099	303	50.07	7	7.853	274	18.10	56
März 1.8	31.505	285	57.29	49	23.591	305	49.42	73	56.402	311	50.14	1	8.127	283	18.66	30
11.8	31.790	288	56.80	10	23.896	309	48.69	19	56.713	314	50.13	11	8.410	288	18.96	2
21.8	32.078	288	56.70	30	24.205	308	48.50	36	57.027	315	50.02	19	8.698	290	18.98	25
31.7	32.366	282	57.00	68	24.513	302	48.86	88	57.342	310	49.83	27	8.988	286	18.73	52
Apr. 10.7	32.648	273	57.68	103	24.815	290	49.74	137	57.652	302	49.56	35	9.274	280	18.21	77
20.7	32.921	259	58.71	133	25.105	273	51.11	180	57.954	290	49.21	39	9.554	269	17.44	97
30.6	33.180	241	60.04	158	25.378	250	52.91	216	58.244	274	48.82	42	9.823	254	16.47	114
Mai 10.6	33.421	219	61.62	177	25.628	223	55.07	244	58.518	252	48.40	41	10.077	235	15.33	125
20.6	33.640	193	63.39	190	25.851	191	57.51	264	58.770	225	47.99	40	10.312	210	14.08	133
30.6	33.833	161	65.29	196	26.042	154	60.15	276	58.995	194	47.59	35	10.522	181	12.75	136
Juni 9.5	33.994	127	67.25	197	26.196	115	62.91	279	59.189	159	47.24	29	10.703	147	11.39	133
19.5	34.121	90	69.22	193	26.311	73	65.70	276	59.348	119	46.95	22	10.850	111	10.06	128
29.5	34.211	49	71.15	182	26.384	28	68.46	264	59.467	77	46.73	16	10.961	71	8.78	120
Juli 9.5	34.260	9	72.97	169	26.412	16	71.10	248	59.544	32	46.57	10	11.032	29	7.58	109
19.4	34.269	33	74.66	152	26.396	61	73.58	225	59.576	12	46.47	3	11.061	12	6.49	95
29.4	34.236	71	76.18	133	26.335	102	75.83	197	59.564	56	46.44	0	11.049	52	5.54	82
Aug. 8.4	34.165	106	77.51	111	26.233	140	77.80	167	59.508	95	46.44	3	10.997	90	4.72	68
18.3	34.059	138	78.62	87	26.093	173	79.47	132	59.413	130	46.47	4	10.907	123	4.04	52
28.3	33.921	162	79.49	64	25.920	199	80.79	95	59.283	158	46.51	3	10.784	150	3.52	38
Sept. 7.3	33.759	179	80.13	38	25.721	216	81.74	57	59.125	178	46.54	0	10.634	169	3.14	23
17.3	33.580	187	80.51	12	25.505	224	82.31	17	58.947	187	46.54	3	10.465	179	2.91	9
27.2	33.393	185	80.63	13	25.281	224	82.48	25	58.760	187	46.51	7	10.286	179	2.82	6
Okt. 7.2	33.208	174	80.50	40	25.057	212	82.23	65	58.573	174	46.44	11	10.107	170	2.88	21
17.2	33.034	153	80.10	67	24.845	190	81.58	105	58.399	153	46.33	14	9.937	151	3.09	36
27.2	32.881	125	79.43	92	24.655	161	80.53	145	58.246	121	46.19	14	9.786	124	3.45	50
Nov. 6.1	32.756	87	78.51	117	24.494	122	79.08	181	58.125	81	46.05	14	9.662	87	3.95	66
16.1	32.669	46	77.34	140	24.372	78	77.27	214	58.044	36	45.91	12	9.575	48	4.61	81
26.1	32.623	1	75.94	161	24.294	30	75.13	242	58.008	12	45.79	7	9.527	3	5.42	95
Dez. 6.0	32.622	44	74.33	177	24.264	20	72.71	263	58.020	62	45.72	1	9.524	41	6.37	107
16.0	32.666	90	72.56	188	24.284	70	70.08	277	58.082	109	45.71	4	9.565	86	7.44	116
26.0	32.756	132	70.68	193	24.354	118	67.31	281	58.191	154	45.75	11	9.651	128	8.60	121
36.0	32.888		68.75		24.472		64.50		58.345		45.86		9.779		9.81	
Mittl. Ort	30.544		64.76		22.949		61.55		55.129		52.51		7.089		15.36	
sec δ, tg δ	1.014		+0.168		1.141		+0.549		1.072		−0.386		1.001		−0.051	

Mittlere Zeit Greenw.	689) ε Sagittarii AR.		689) ε Sagittarii Dekl.		690) 109 Herculis AR.		690) 109 Herculis Dekl.		691) α Telescopii AR.		691) α Telescopii Dekl.		695) γ Draconis AR.		695) γ Draconis Dekl.	
1919	$18^h 18^m$		$-34° 25'$		$18^h 20^m$		$+21° 43'$		$18^h 20^m$		$-46° 0'$		$18^h 22^m$		$+72° 41'$	
Jan. 1.0	47.416	193	23.14	74	14.161	135	56.82	247	57.578	216	47.49	144	26.21	11	55.26	351
11.0	47.609	234	22.40	67	14.296	175	54.35	239	57.794	267	46.05	133	26.32	24	51.75	341
20.9	47.843	270	21.73	60	14.471	208	51.96	221	58.061	309	44.72	121	26.56	37	48.34	317
30.9	48.113	298	21.13	52	14.679	237	49.75	195	58.370	344	43.51	107	26.93	49	45.17	282
Feb. 9.9	48.411	320	20.61	45	14.916	259	47.80	160	58.714	372	42.44	90	27.42	59	42.35	235
19.8	48.731	336	20.16	39	15.175	278	46.20	119	59.086	392	41.54	75	28.01	68	40.00	180
März 1.8	49.067	346	19.77	34	15.453	289	45.01	72	59.478	406	40.79	59	28.69	73	38.20	118
11.8	49.413	353	19.43	30	15.742	296	44.29	24	59.884	413	40.20	41	29.42	77	37.02	52
21.8	49.766	354	19.13	24	16.038	298	44.05	—27	60.297	415	39.79	25	30.19	77	36.50	—15
31.7	50.120	352	18.89	18	16.336	295	44.32	75	60.712	413	39.54	8	30.96	76	36.65	80
Apr. 10.7	50.472	343	18.71	12	16.631	287	45.07	119	61.125	403	39.46	—10	31.72	71	37.45	142
20.7	50.815	332	18.59	4	16.918	274	46.26	160	61.528	388	39.56	28	32.43	66	38.87	198
30.7	51.147	314	18.55	—4	17.192	256	47.86	193	61.916	367	39.84	45	33.09	57	40.85	247
Mai 10.6	51.461	290	18.59	14	17.448	233	49.79	219	62.283	339	40.29	63	33.66	48	43.32	286
20.6	51.751	262	18.73	24	17.681	204	51.98	239	62.622	304	40.92	79	34.14	37	46.18	316
30.6	52.013	227	18.97	35	17.885	172	54.37	251	62.926	263	41.71	95	34.51	25	49.34	337
Juni 9.5	52.240	187	19.32	44	18.057	136	56.88	254	63.189	215	42.66	107	34.76	13	52.71	348
19.5	52.427	143	19.76	54	18.193	95	59.42	252	63.404	163	43.73	118	34.89	0	56.19	349
29.5	52.570	95	20.30	60	18.288	54	61.94	243	63.567	106	44.91	125	34.89	13	59.68	341
Juli 9.5	52.665	45	20.90	65	18.342	9	64.37	228	63.673	48	46.16	128	34.76	24	63.09	325
19.4	52.710	—6	21.55	67	18.351	—33	66.65	208	63.721	—13	47.44	125	34.52	37	66.34	301
29.4	52.704	56	22.22	65	18.318	75	68.73	185	63.708	72	48.69	119	34.15	47	69.35	272
Aug. 8.4	52.648	102	22.87	61	18.243	113	70.58	157	63.636	125	49.88	107	33.68	57	72.07	235
18.4	52.546	142	23.48	51	18.130	147	72.15	127	63.511	173	50.95	90	33.11	65	74.42	194
28.3	52.404	176	23.99	40	17.983	175	73.42	95	63.338	213	51.85	69	32.46	71	76.36	149
Sept. 7.3	52.228	200	24.39	25	17.808	194	74.37	61	63.125	241	52.54	44	31.75	77	77.85	101
17.3	52.028	212	24.64	9	17.614	205	74.98	26	62.884	257	52.98	17	30.98	79	78.86	49
27.2	51.816	214	24.73	—9	17.409	205	75.24	—10	62.627	259	53.15	—13	30.19	80	79.35	—4
Okt. 7.2	51.602	202	24.64	26	17.204	197	75.14	47	62.368	247	53.02	42	29.39	78	79.31	57
17.2	51.400	180	24.38	44	17.007	179	74.67	82	62.121	220	52.60	70	28.61	75	78.74	111
27.2	51.220	145	23.94	58	16.828	152	73.85	118	61.901	182	51.90	95	27.86	69	77.63	162
Nov. 6.1	51.075	103	23.36	69	16.676	117	72.67	150	61.719	132	50.95	117	27.17	61	76.01	211
16.1	50.972	53	22.67	78	16.559	76	71.17	181	61.587	74	49.78	134	26.56	51	73.90	255
26.1	50.919	—1	21.89	82	16.483	32	69.36	208	61.513	12	48.44	145	26.05	39	71.35	294
Dez. 6.1	50.920	55	21.07	84	16.451	—15	67.28	228	61.501	—54	46.99	151	25.66	27	68.41	324
16.0	50.975	110	20.23	81	16.466	62	65.00	243	61.555	117	45.48	152	25.39	13	65.17	344
26.0	51.085	160	19.42	77	16.528	107	62.57	250	61.672	177	43.96	147	25.26	—1	61.73	353
36.0	51.245		18.65		16.635		60.07		61.849		42.49		25.27		58.20	
Mittl. Ort	47.731		26.77		14.757		54.75		58.055		51.48		31.11		52.90	
sec δ, tg δ	1.212		−0.685		1.076		+0.399		1.440		−1.036		3.363		+3.210	

Mittlere Zeit Greenw.	694) *b* Draconis AR.		Dekl.		698) ζ Pavonis AR.		Dekl.		699) α Lyrae AR.		Dekl.		703) 110 Herculis AR.		Dekl.	
	$18^h 22^m$		$+58° 44'$		$18^h 33^m$		$-71° 29'$		$18^h 34^m$		$+38° 42'$		$18^h 42^m$		$+20° 27'$	
1919																
Jan. 1.0	41.391	110	74.46	349	32.61	34	54.96	278	10.707	109	30.08	307	9.955	113	67.62	237
11.0	41.501	187	70.97	337	32.95	46	52.18	264	10.816	158	27.01	298	10.068	153	65.25	231
20.9	41.688	258	67.60	313	33.41	57	49.54	243	10.974	202	24.03	279	10.221	188	62.94	217
30.9	41.946	322	64.47	277	33.98	65	47.11	217	11.176	241	21.24	249	10.409	218	60.77	192
Feb. 9.9	42.268	375	61.70	231	34.63	73	44.94	187	11.417	274	18.75	208	10.627	243	58.85	161
19.9	42.643	417	59.39	175	35.36	78	43.07	152	11.691	299	16.67	159	10.870	263	57.24	123
März 1.8	43.060	447	57.64	114	36.14	82	41.55	116	11.990	319	15.08	104	11.133	279	56.01	78
11.8	43.507	464	56.50	47	36.96	85	40.39	78	12.309	332	14.04	46	11.412	289	55.23	30
21.8	43.971	469	56.03	19	37.81	86	39.61	40	12.641	337	13.58	15	11.701	296	54.93	18
31.7	44.440	462	56.22	84	38.67	85	39.21	1	12.978	335	13.73	74	11.997	296	55.11	65
Apr. 10.7	44.902	441	57.06	146	39.52	84	39.20	37	13.313	327	14.47	129	12.293	292	55.76	111
20.7	45.343	409	58.52	201	40.36	80	39.57	75	13.640	312	15.76	180	12.585	283	56.87	150
30.7	45.752	367	60.53	249	41.16	75	40.32	111	13.952	290	17.56	224	12.868	268	58.37	185
Mai 10.6	46.119	317	63.02	288	41.91	69	41.43	144	14.242	262	19.80	260	13.136	248	60.22	213
20.6	46.436	258	65.90	318	42.60	60	42.87	174	14.504	227	22.40	287	13.384	222	62.35	233
30.6	46.694	193	69.08	338	43.20	52	44.61	200	14.731	188	25.27	305	13.606	192	64.68	247
Juni 9.6	46.887	124	72.46	348	43.72	42	46.61	220	14.919	144	28.32	315	13.798	157	67.15	252
19.5	47.011	52	75.94	349	44.14	30	48.81	236	15.063	96	31.47	316	13.955	118	69.67	252
29.5	47.063	22	79.43	341	44.44	18	51.17	244	15.159	46	34.63	308	14.073	75	72.19	244
Juli 9.5	47.041	95	82.84	324	44.62	5	53.61	245	15.205	5	37.71	295	14.148	32	74.63	232
19.4	46.946	165	86.08	300	44.67	7	56.06	238	15.200	54	40.66	273	14.180	12	76.95	214
29.4	46.781	230	89.08	270	44.60	20	58.44	224	15.146	104	43.39	247	14.168	56	79.09	191
Aug. 8.4	46.551	290	91.78	234	44.40	31	60.68	201	15.042	148	45.86	215	14.112	95	81.00	165
18.4	46.261	340	94.12	192	44.09	42	62.69	171	14.894	187	48.01	178	14.017	132	82.65	137
28.3	45.921	382	96.04	147	43.67	50	64.40	134	14.707	219	49.79	139	13.885	162	84.02	106
Sept. 7.3	45.539	412	97.51	98	43.17	56	65.74	91	14.488	244	51.18	97	13.723	184	85.08	73
17.3	45.127	428	98.49	47	42.61	61	66.65	43	14.244	258	52.15	51	13.539	198	85.81	39
27.3	44.699	433	98.96	5	42.00	61	67.08	7	13.986	262	52.66	5	13.341	204	86.20	5
Okt. 7.2	44.266	422	98.91	59	41.39	60	67.01	59	13.724	256	52.71	41	13.137	198	86.25	31
17.2	43.844	398	98.32	111	40.79	56	66.42	108	13.468	239	52.30	89	12.939	183	85.94	65
27.2	43.446	360	97.21	163	40.23	48	65.34	155	13.229	212	51.41	133	12.756	160	85.29	100
Nov. 6.1	43.086	310	95.58	211	39.75	39	63.79	197	13.017	176	50.08	177	12.596	128	84.29	134
16.1	42.776	249	93.47	255	39.36	28	61.82	230	12.841	132	48.31	217	12.468	91	82.95	164
26.1	42.527	179	90.92	293	39.08	15	59.52	257	12.709	85	46.14	251	12.377	49	81.31	191
Dez. 6.1	42.348	103	87.99	322	38.93	1	56.95	275	12.624	32	43.63	279	12.328	4	79.40	214
16.0	42.245	22	84.77	342	38.92	12	54.20	282	12.592	22	40.84	299	12.324	41	77.26	229
26.0	42.223	60	81.35	350	39.04	26	51.38	282	12.614	75	37.85	307	12.365	85	74.97	238
36.0	42.283		77.85		39.30		48.56		12.689		34.78		12.450		72.59	
Mittl. Ort	43.675		72.26		34.63		59.09		11.745		27.02		10.521		64.26	
sec δ, tg δ	1.928		+1.648		3.152		−2.989		1.281		+0.801		1.067		+0.373	

Mittlere Zeit Greenw.	704) λ Pavonis AR.		704) λ Pavonis Dekl.		705) β Lyrae AR.		705) β Lyrae Dekl.		707) ο Draconis AR.		707) ο Draconis Dekl.		706) σ Sagittarii AR.		706) σ Sagittarii Dekl.	
	$18^h\ 44^m$		$-62°\ 16'$		$18^h\ 47^m$		$+33°\ 15'$		$18^h\ 49^m$		$+59°\ 17'$		$18^h\ 50^m$		$-26°\ 23'$	
1919	s		"		s		"		s		"		s		"	
Jan. 1.0	41.78	24	52.08	242	4.503	98	68.37	287	58.152	60	25.37	345	14.309	145	51.93	37
11.0	42.02	32	49.66	233	4.601	143	65.50	282	58.212	139	21.92	340	14.454	185	51.56	36
21.0	42.34	39	47.33	217	4.744	185	62.68	264	58.351	215	18.52	324	14.639	220	51.20	35
30.9	42.73	44	45.16	198	4.929	221	60.04	238	58.566	283	15.28	293	14.859	249	50.85	35
Feb. 9.9	43.17	50	43.18	174	5.150	252	57.66	201	58.849	344	12.35	252	15.108	273	50.50	37
19.9	43.67	54	41.44	147	5.402	277	55.65	156	59.193	394	9.83	202	15.381	292	50.13	40
März 1.8	44.21	56	39.97	119	5.679	298	54.09	105	59.587	433	7.81	142	15.673	307	49.73	44
11.8	44.77	59	38.78	89	5.977	311	53.04	50	60.020	460	6.39	80	15.980	318	49.29	48
21.8	45.36	60	37.89	57	6.288	319	52.54	8	60.480	474	5.59	13	16.298	325	48.81	51
31.8	45.96	60	37.32	26	6.607	320	52.62	64	60.954	475	5.46	53	16.623	327	48.30	54
Apr. 10.7	46.56	58	37.06	7	6.927	316	53.26	117	61.429	464	5.99	116	16.950	325	47.76	55
20.7	47.14	58	37.13	38	7.243	304	54.43	166	61.893	440	7.15	175	17.275	320	47.21	54
30.7	47.72	54	37.51	71	7.547	287	56.09	208	62.333	404	8.90	226	17.595	308	46.67	50
Mai 10.7	48.26	50	38.22	100	7.834	263	58.17	243	62.737	359	11.16	271	17.903	291	46.17	44
20.6	48.76	46	39.22	128	8.097	233	60.60	270	63.096	305	13.87	305	18.194	267	45.73	37
30.6	49.22	40	40.50	153	8.330	199	63.30	289	63.401	242	16.92	331	18.461	239	45.36	27
Juni 9.6	49.62	33	42.03	175	8.529	158	66.19	300	63.643	173	20.23	347	18.700	204	45.09	16
19.5	49.95	25	43.78	190	8.687	115	69.19	301	63.816	101	23.70	353	18.904	165	44.93	5
29.5	50.20	17	45.68	202	8.802	67	72.20	295	63.917	26	27.23	351	19.069	121	44.88	6
Juli 9.5	50.37	8	47.70	207	8.869	20	75.15	284	63.943	49	30.74	340	19.190	74	44.94	16
19.5	50.45	1	49.77	205	8.889	29	77.99	264	63.894	123	34.14	321	19.264	26	45.10	25
29.4	50.44	9	51.82	197	8.860	76	80.63	239	63.771	194	37.35	295	19.290	23	45.35	30
Aug. 8.4	50.35	18	53.79	180	8.784	119	83.02	210	63.577	259	40.30	263	19.267	67	45.65	35
18.4	50.17	25	55.59	157	8.665	159	85.12	177	63.318	315	42.93	225	19.200	109	46.00	35
28.3	49.92	31	57.16	127	8.506	192	86.89	140	63.003	363	45.18	182	19.091	145	46.35	32
Sept. 7.3	49.61	37	58.43	91	8.314	216	88.29	100	62.640	401	47.00	136	18.946	172	46.67	28
17.3	49.24	39	59.34	52	8.098	232	89.29	59	62.239	425	48.36	86	18.774	188	46.95	21
27.3	48.85	41	59.86	9	7.866	239	89.88	15	61.814	436	49.22	34	18.586	196	47.16	11
Okt. 7.2	48.44	40	59.95	36	7.627	234	90.03	28	61.378	434	49.56	19	18.390	191	47.27	2
17.2	48.04	37	59.59	80	7.393	220	89.75	72	60.944	417	49.37	74	18.199	176	47.29	9
27.2	47.67	32	58.79	121	7.173	197	89.03	115	60.527	386	48.63	126	18.023	150	47.20	17
Nov. 6.2	47.35	26	57.58	159	6.976	164	87.88	157	60.141	343	47.37	178	17.873	115	47.03	26
16.1	47.09	19	55.99	190	6.812	125	86.31	195	59.798	288	45.59	225	17.758	73	46.77	31
26.1	46.90	9	54.09	215	6.687	81	84.36	229	59.510	223	43.34	268	17.685	28	46.46	35
Dez. 6.1	46.81	1	51.94	232	6.606	32	82.07	256	59.287	150	40.66	302	17.657	21	46.11	37
16.0	46.80	8	49.62	241	6.574	17	79.51	276	59.137	73	37.64	328	17.678	69	45.74	37
26.0	46.88	18	47.21	243	6.591	66	76.75	287	59.064	9	34.36	343	17.747	116	45.37	36
36.0	47.06		44.78		6.657		73.88		59.073		30.93		17.863		45.01	
Mittl. Ort	42.92		55.40		5.352		64.40		60.434		20.36		14.596		54.87	
sec δ, tg δ	2.150		−1.903		1.196		+0.656		1.958		+1.683		1.116		−0.496	

Mittlere Zeit Greenw.	708) λ Telescopii				709) ϑ Serpentis pr.				711) *R* Lyrae				713) γ Lyrae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$18^h\ 51^m$		$-53°\ 2'$		$18^h\ 52^m$		$+4°\ 5'$		$18^h\ 52^m$		$+43°\ 50'$		$18^h\ 55^m$		$+32°\ 34'$	
Jan. 1.0	58.404	188	42.15	197	11.213	117	53.11	148	51.020	81	23.99	318	53.972	89	44.09	282
11.0	58.592	250	40.18	192	11.330	152	51.63	146	51.101	134	20.81	313	54.061	134	41.27	278
21.0	58.842	304	38.26	181	11.482	184	50.17	136	51.235	184	17.68	297	54.195	174	38.49	263
30.9	59.146	350	36.45	167	11.666	211	48.81	120	51.419	229	14.71	268	54.369	212	35.86	238
Feb. 9.9	59.496	388	34.78	150	11.877	235	47.61	97	51.648	269	12.03	230	54.581	243	33.48	202
19.9	59.884	419	33.28	131	12.112	253	46.64	71	51.917	302	9.73	181	54.824	270	31.46	159
März 1.8	60.303	443	31.97	112	12.365	268	45.93	38	52.219	327	7.92	127	55.094	292	29.87	109
11.8	60.746	459	30.85	89	12.633	279	45.55	5	52.546	345	6.65	67	55.386	306	28.78	54
21.8	61.205	469	29.96	66	12.912	286	45.50	29	52.891	356	5.98	5	55.692	316	28.24	2
31.8	61.674	472	29.30	42	13.198	288	45.79	63	53.247	359	5.93	56	56.008	319	28.26	58
Apr. 10.7	62.146	469	28.88	17	13.486	287	46.42	94	53.606	353	6.49	116	56.327	316	28.84	111
20.7	62.615	457	28.71	8	13.773	281	47.36	122	53.959	340	7.65	170	56.643	307	29.95	160
30.7	63.072	439	28.79	34	14.054	271	48.58	145	54.299	318	9.35	217	56.950	291	31.55	202
Mai 10.7	63.511	412	29.13	59	14.325	254	50.03	162	54.617	290	11.52	258	57.241	270	33.57	239
20.6	63.923	376	29.72	83	14.579	232	51.65	174	54.907	254	14.10	290	57.511	240	35.96	267
30.6	64.299	332	30.55	106	14.811	206	53.39	181	55.161	213	17.00	312	57.751	207	38.63	286
Juni 9.6	64.631	281	31.61	125	15.017	174	55.20	182	55.374	166	20.12	326	57.958	167	41.49	297
19.5	64.912	223	32.86	143	15.191	138	57.02	177	55.540	115	23.38	331	58.125	125	44.46	300
29.5	65.135	158	34.29	155	15.329	98	58.79	170	55.655	62	26.69	328	58.250	78	47.46	296
Juli 9.5	65.293	90	35.84	163	15.427	57	60.49	157	55.717	6	29.97	316	58.328	30	50.42	284
19.5	65.383	20	37.47	164	15.484	14	62.06	143	55.723	48	33.13	297	58.358	18	53.26	267
29.4	65.403	49	39.11	161	15.498	29	63.49	125	55.675	102	36.10	272	58.340	65	55.93	243
Aug. 8.4	65.354	116	40.72	150	15.469	69	64.74	106	55.573	151	38.82	241	58.275	110	58.36	214
18.4	65.238	176	42.22	135	15.400	105	65.80	86	55.422	195	41.23	206	58.165	150	60.50	182
28.3	65.062	227	43.57	112	15.295	136	66.66	66	55.227	232	43.29	166	58.015	184	62.32	146
Sept. 7.3	64.835	268	44.69	84	15.159	160	67.32	44	54.995	261	44.95	122	57.831	210	63.78	108
17.3	64.567	294	45.53	52	14.999	174	67.76	23	54.734	280	46.17	77	57.621	227	64.86	65
27.3	64.273	305	46.05	17	14.825	181	67.99	2	54.454	288	46.94	28	57.394	235	65.51	24
Okt. 7.2	63.968	301	46.22	19	14.644	177	68.01	19	54.166	285	47.22	20	57.159	232	65.75	20
17.2	63.667	280	46.03	55	14.467	164	67.82	40	53.881	272	47.02	70	56.927	220	65.55	63
27.2	63.387	244	45.48	91	14.303	142	67.42	60	53.609	248	46.32	119	56.707	197	64.92	107
Nov. 6.2	63.143	195	44.57	122	14.161	112	66.82	82	53.361	213	45.13	166	56.510	167	63.85	147
16.1	62.948	136	43.35	148	14.049	76	66.00	100	53.148	172	43.47	209	56.343	129	62.38	187
26.1	62.812	69	41.87	170	13.973	36	65.00	117	52.976	122	41.38	248	56.214	87	60.51	220
Dez. 6.1	62.743	2	40.17	185	13.937	6	63.83	133	52.854	70	38.90	279	56.127	39	58.31	248
16.0	62.745	74	38.32	194	13.943	48	62.50	143	52.784	13	36.11	303	56.088	9	55.83	270
26.0	62.819	143	36.38	197	13.991	89	61.07	150	52.771	43	33.08	316	56.097	57	53.13	282
36.0	62.962		34.41		14.080		59.57		52.814		29.92		56.154		50.31	
Mittl. Ort	59.112		45.00		11.566		49.65		52.238		19.22		54.790		39.50	
sec δ, tg δ	1.663		−1.329		1.003		+0.072		1.386		+0.960		1.187		+0.639	

Mittlere Zeit Greenw.	716) ζ Aquilae AR.		716) ζ Aquilae Dekl.		717) λ Aquilae AR.		717) λ Aquilae Dekl.		718) α Coron. austr. AR.		718) α Coron. austr. Dekl.		720) π Sagittarii AR.		720) π Sagittarii Dekl.	
1919	19h 1m		+13° 44′		19h 1m		−5° 0′		19h 3m		−38° 1′		19h 4m		−21° 9′	
	s		″		s		″		s		″		s		″	
Jan. 1.0	40.766	99	35.58	199	56.745	114	14.73	93	57.371	144	52.48	114	56.578	124	9.80	9
11.0	40.865	137	33.59	195	56.859	150	15.66	90	57.515	189	51.34	112	56.702	163	9.71	9
21.0	41.002	171	31.64	183	57.009	182	16.56	84	57.704	230	50.22	109	56.865	196	9.62	12
30.9	41.173	201	29.81	165	57.191	209	17.40	72	57.934	266	49.13	106	57.061	226	9.50	16
Feb. 9.9	41.374	226	28.16	137	57.400	232	18.12	55	58.200	294	48.07	99	57.287	251	9.34	23
19.9	41.600	247	26.79	104	57.632	252	18.67	35	58.494	319	47.08	94	57.538	270	9.11	30
März 1.9	41.847	265	25.75	66	57.884	267	19.02	12	58.813	339	46.14	88	57.808	288	8.81	39
11.8	42.112	278	25.09	24	58.151	280	19.14	14	59.152	353	45.26	80	58.096	300	8.42	49
21.8	42.390	287	24.85	18	58.431	287	19.00	40	59.505	363	44.46	72	58.396	309	7.93	58
31.8	42.677	291	25.03	61	58.718	293	18.60	64	59.868	368	43.74	63	58.705	314	7.35	66
Apr. 10.7	42.968	291	25.64	101	59.011	292	17.96	87	60.236	369	43.11	52	59.019	315	6.69	73
20.7	43.259	285	26.65	136	59.303	288	17.09	106	60.605	363	42.59	39	59.334	311	5.96	76
30.7	43.544	275	28.01	168	59.591	280	16.03	122	60.968	353	42.20	26	59.645	303	5.20	77
Mai 10.7	43.819	259	29.69	192	59.871	265	14.81	132	61.321	335	41.94	9	59.948	288	4.43	75
20.6	44.078	237	31.61	211	60.136	245	13.49	139	61.656	311	41.85	7	60.236	268	3.68	70
30.6	44.315	209	33.72	223	60.381	219	12.10	141	61.967	279	41.92	24	60.504	241	2.98	62
Juni 9.6	44.524	177	35.95	227	60.600	189	10.69	138	62.246	241	42.16	41	60.745	210	2.36	52
19.6	44.701	140	38.22	227	60.789	153	9.31	131	62.487	197	42.57	56	60.955	171	1.84	42
29.5	44.841	100	40.49	220	60.942	114	8.00	122	62.684	148	43.13	70	61.126	131	1.42	29
Juli 9.5	44.941	57	42.69	209	61.056	72	6.78	111	62.832	96	43.83	81	61.257	85	1.13	17
19.5	44.998	14	44.78	192	61.128	28	5.67	96	62.928	41	44.64	89	61.342	38	0.96	6
29.4	45.012	30	46.70	173	61.156	15	4.71	82	62.969	15	45.53	92	61.380	8	0.90	3
Aug. 8.4	44.982	71	48.43	150	61.141	57	3.89	67	62.954	66	46.45	92	61.372	54	0.93	11
18.4	44.911	109	49.93	125	61.084	94	3.22	51	62.888	116	47.37	87	61.318	94	1.04	17
28.4	44.802	140	51.18	98	60.990	127	2.71	36	62.772	157	48.24	77	61.224	130	1.21	20
Sept. 7.3	44.662	165	52.16	71	60.863	152	2.35	23	62.615	190	49.01	63	61.094	159	1.41	21
17.3	44.497	182	52.87	41	60.711	169	2.12	10	62.425	213	49.64	46	60.935	177	1.62	19
27.3	44.315	189	53.28	12	60.542	177	2.02	3	62.212	224	50.10	25	60.758	186	1.81	16
Okt. 7.3	44.126	188	53.40	17	60.365	175	2.05	16	61.988	222	50.35	3	60.572	185	1.97	11
17.2	43.938	176	53.23	47	60.190	162	2.21	27	61.766	208	50.38	19	60.387	172	2.08	7
27.2	43.762	155	52.76	77	60.028	142	2.48	40	61.558	182	50.19	41	60.215	149	2.15	1
Nov. 6.2	43.607	128	51.99	104	59.886	112	2.88	51	61.376	146	49.78	60	60.066	119	2.16	2
16.1	43.479	93	50.95	132	59.774	78	3.39	63	61.230	101	49.18	78	59.947	81	2.14	4
26.1	43.386	54	49.63	154	59.696	38	4.02	73	61.129	51	48.40	92	59.866	39	2.10	7
Dez. 6.1	43.332	12	48.09	175	59.658	4	4.75	83	61.078	3	47.48	102	59.827	6	2.03	7
16.1	43.320	30	46.34	190	59.662	46	5.58	90	61.081	57	46.46	108	59.833	52	1.96	6
26.0	43.350	72	44.44	198	59.708	87	6.48	94	61.138	109	45.38	112	59.885	95	1.90	7
36.0	43.422		42.46		59.795		7.42		61.247		44.26		59.980		1.83	
Mittl. Ort	41.214		31.41		57.034		18.15		57.761		54.96		56.848		12.68	
sec δ, tg δ	1.029		+0.245		1.004		−0.088		1.270		−0.782		1.072		−0.387	

Mittlere Zeit Greenw.	723) δ Draconis AR.		723) δ Draconis Dekl.		724) ϑ Lyrae AR.		724) ϑ Lyrae Dekl.		725) ω Aquilae AR.		725) ω Aquilae Dekl.		726) κ Cygni AR.		726) κ Cygni Dekl.	
1919	19h 12m		+67° 30′		19h 13m		+37° 59′		19h 14m		+11° 26′		19h 15m		+53° 12′	
Jan. 1.0	29.08	2	76.09	342	32.419	62	25.50	295	0.456	89	58.75	183	12.214	32	73.69	330
11.0	29.06	9	72.67	345	32.481	111	22.55	295	0.545	127	56.92	180	12.246	99	70.39	331
21.0	29.15	19	69.22	334	32.592	156	19.60	282	0.672	160	55.12	170	12.345	162	67.08	320
30.9	29.34	30	65.88	309	32.748	198	16.78	259	0.832	190	53.42	152	12.507	222	63.88	296
Feb. 9.9	29.64	39	62.79	275	32.946	235	14.19	224	1.022	216	51.90	128	12.729	275	60.92	260
19.9	30.03	46	60.04	228	33.181	268	11.95	182	1.238	239	50.62	96	13.004	322	58.32	214
März 1.9	30.49	53	57.76	172	33.449	294	10.13	131	1.477	258	49.66	61	13.326	360	56.18	160
11.8	31.02	57	56.04	112	33.743	314	8.82	75	1.735	272	49.05	21	13.686	390	54.58	100
21.8	31.59	61	54.92	45	34.057	329	8.07	17	2.007	283	48.84	19	14.076	408	53.58	35
31.8	32.20	61	54.47	20	34.386	335	7.90	42	2.290	289	49.03	60	14.484	418	53.23	28
Apr. 10.7	32.81	61	54.67	86	34.721	336	8.32	99	2.579	292	49.63	98	14.902	415	53.51	92
20.7	33.42	58	55.53	147	35.057	328	9.31	151	2.871	288	50.61	132	15.317	404	54.43	151
30.7	34.00	54	57.00	202	35.385	314	10.82	199	3.159	280	51.93	162	15.721	382	55.94	204
Mai 10.7	34.54	49	59.02	250	35.699	292	12.81	240	3.439	265	53.55	185	16.103	349	57.98	251
20.6	35.03	41	61.52	291	35.991	264	15.21	271	3.704	246	55.40	204	16.452	309	60.49	288
30.6	35.44	33	64.43	322	36.255	229	17.92	295	3.950	219	57.44	215	16.761	260	63.37	318
Juni 9.6	35.77	25	67.65	343	36.484	188	20.87	311	4.169	189	59.59	220	17.021	205	66.55	337
19.6	36.02	15	71.08	356	36.672	142	23.98	318	4.358	153	61.79	219	17.226	145	69.92	349
29.5	36.17	5	74.64	360	36.814	93	27.16	317	4.511	113	63.98	213	17.371	81	73.41	350
Juli 9.5	36.22	6	78.24	353	36.907	43	30.33	308	4.624	71	66.11	201	17.452	16	76.91	343
19.5	36.16	14	81.77	341	36.950	10	33.41	292	4.695	27	68.12	186	17.468	51	80.34	329
29.4	36.02	24	85.18	319	36.940	60	36.33	271	4.722	17	69.98	167	17.417	114	83.63	307
Aug. 8.4	35.78	33	88.37	290	36.880	108	39.04	242	4.705	59	71.65	145	17.303	173	86.70	278
18.4	35.45	41	91.27	257	36.772	153	41.46	210	4.646	97	73.10	122	17.130	228	89.48	245
28.4	35.04	48	93.84	217	36.619	190	43.56	174	4.549	130	74.32	96	16.902	275	91.93	205
Sept. 7.3	34.56	53	96.01	173	36.429	220	45.30	134	4.419	156	75.28	71	16.627	312	93.98	162
17.3	34.03	57	97.74	124	36.209	241	46.64	91	4.263	175	75.99	43	16.315	339	95.60	114
27.3	33.46	59	98.98	73	35.968	252	47.55	46	4.088	185	76.42	16	15.976	354	96.74	65
Okt. 7.3	32.87	60	99.71	20	35.716	254	48.01	0	3.903	184	76.58	11	15.622	357	97.39	12
17.2	32.27	59	99.91	36	35.462	244	48.01	46	3.719	174	76.47	40	15.265	349	97.51	40
27.2	31.68	56	99.55	90	35.218	225	47.55	94	3.545	157	76.07	67	14.916	327	97.11	93
Nov. 6.2	31.12	51	98.65	146	34.993	197	46.61	138	3.388	130	75.40	93	14.589	294	96.18	145
16.1	30.61	45	97.19	196	34.796	160	45.23	181	3.258	97	74.47	118	14.295	252	94.73	194
26.1	30.16	38	95.23	243	34.636	118	43.42	219	3.161	60	73.29	140	14.043	200	92.79	238
Dez. 6.1	29.78	29	92.80	283	34.518	72	41.23	252	3.101	20	71.89	159	13.843	141	90.41	276
16.1	29.49	19	89.97	315	34.446	21	38.71	276	3.081	21	70.30	174	13.702	78	87.65	306
26.0	29.30	9	86.82	337	34.425	28	35.95	293	3.102	62	68.56	182	13.624	11	84.59	326
36.0	29.21		83.45		34.453		33.02		3.164		66.74		13.613		81.33	
Mittl. Ort	32.42		68.44		33.366		19.32		0.863		54.17		13.893		66.48	
sec δ, tg δ	2.615		+2.416		1.269		+0.781		1.020		+0.202		1.670		+1.338	

Mittlere Zeit Greenw.	729) τ Draconis AR.		729) τ Draconis Dekl.		728) α Sagittarii AR.		728) α Sagittarii Dekl.		730) δ Aquilae AR.		730) δ Aquilae Dekl.		732) β Cygni AR.		732) β Cygni Dekl.	
1919	19h 17m		+73° 12′		19h 18m		−40° 45′		19h 21m		+2° 57′		19h 27m		+27° 47′	
Jan. 1.0	2.39	8	28.22	339	16.143	128	68.24	134	24.551	89	12.45	133	26.621	60	25.78	254
11.0	2.31	6	24.83	343	16.271	176	66.90	135	24.640	126	11.12	131	26.681	101	23.24	255
21.0	2.37	22	21.40	335	16.447	220	65.55	133	24.766	158	9.81	123	26.782	141	20.69	244
30.9	2.59	34	18.05	312	16.667	258	64.22	129	24.924	187	8.58	109	26.923	178	18.25	225
Feb. 9.9	2.93	47	14.93	279	16.925	290	62.93	124	25.111	213	7.49	88	27.101	211	16.00	196
19.9	3.40	58	12.14	234	17.215	318	61.69	118	25.324	236	6.61	62	27.312	239	14.04	157
März 1.9	3.98	67	9.80	181	17.533	340	60.51	109	25.560	254	5.99	33	27.551	263	12.47	113
11.8	4.65	73	7.99	120	17.873	358	59.42	101	25.814	268	5.66	1	27.814	284	11.34	64
21.8	5.38	78	6.79	56	18.231	371	58.41	90	26.082	280	5.65	32	28.098	298	10.70	11
31.8	6.16	79	6.23	10	18.602	380	57.51	78	26.362	288	5.97	65	28.396	307	10.59	41
Apr. 10.8	6.95	78	6.33	76	18.982	382	56.73	65	26.650	292	6.62	96	28.703	311	11.00	93
20.7	7.73	75	7.09	137	19.364	380	56.08	48	26.942	290	7.58	122	29.014	309	11.93	140
30.7	8.48	69	8.46	192	19.744	371	55.60	32	27.232	283	8.80	145	29.323	299	13.33	182
Mai 10.7	9.17	62	10.38	242	20.115	355	55.28	13	27.515	271	10.25	163	29.622	284	15.15	218
20.6	9.79	52	12.80	284	20.470	332	55.15	7	27.786	252	11.88	175	29.906	262	17.33	247
30.6	10.31	42	15.64	316	20.802	300	55.22	26	28.038	229	13.63	182	30.168	233	19.80	268
Juni 9.6	10.73	30	18.80	339	21.102	263	55.48	46	28.267	200	15.45	183	30.401	198	22.48	281
19.6	11.03	17	22.19	353	21.365	219	55.94	65	28.467	164	17.28	179	30.599	160	25.29	287
29.5	11.20	4	25.72	358	21.584	168	56.59	80	28.631	127	19.07	172	30.759	116	28.16	286
Juli 9.5	11.24	9	29.30	354	21.752	114	57.39	94	28.758	84	20.79	159	30.875	70	31.02	278
19.5	11.15	21	32.84	342	21.866	57	58.33	103	28.842	41	22.38	145	30.945	22	33.80	262
29.5	10.94	34	36.26	323	21.923	0	59.36	109	28.883	3	23.83	128	30.967	25	36.42	243
Aug. 8.4	10.60	45	39.49	296	21.923	56	60.45	109	28.880	44	25.11	108	30.942	70	38.85	218
18.4	10.15	56	42.45	264	21.867	109	61.54	104	28.836	84	26.19	89	30.872	112	41.03	190
28.4	9.59	65	45.09	225	21.758	154	62.58	95	28.752	118	27.08	69	30.760	149	42.93	157
Sept. 7.3	8.94	71	47.34	183	21.604	190	63.53	80	28.634	145	27.77	49	30.611	178	44.50	122
17.3	8.23	77	49.17	135	21.414	218	64.33	61	28.489	165	28.26	27	30.433	199	45.72	85
27.3	7.46	80	50.52	84	21.196	231	64.94	38	28.324	175	28.53	8	30.234	212	46.57	46
Okt. 7.3	6.66	81	51.36	31	20.965	233	65.32	14	28.149	176	28.61	13	30.022	215	47.03	6
17.2	5.85	81	51.67	24	20.732	222	65.46	11	27.973	168	28.48	32	29.807	208	47.09	35
27.2	5.04	77	51.43	79	20.510	198	65.35	36	27.805	150	28.16	51	29.599	192	46.74	74
Nov. 6.2	4.27	71	50.64	133	20.312	164	64.99	61	27.655	124	27.65	70	29.407	167	46.00	115
16.2	3.56	64	49.31	186	20.148	120	64.38	82	27.531	93	26.95	87	29.240	135	44.85	151
26.1	2.92	55	47.45	233	20.028	70	63.56	100	27.438	57	26.08	104	29.105	99	43.34	185
Dez. 6.1	2.37	43	45.12	276	19.958	17	62.56	114	27.381	17	25.04	118	29.006	57	41.49	214
16.1	1.94	31	42.36	308	19.941	39	61.42	124	27.364	23	23.86	128	28.949	14	39.35	236
26.0	1.63	17	39.28	332	19.980	92	60.18	130	27.387	62	22.58	134	28.935	30	36.99	252
36.0	1.46		35.96		20.072		58.88		27.449		21.24		28.965		34.47	
Mittl. Ort	7.15		19.84		16.574		70.19		24.870		8.19		27.262		19.34	
sec δ, tg δ	3.461		+3.313		1.320		−0.862		1.001		+0.052		1.130		+0.527	

Mittlere Zeit Greenw.	733) ι Cygni AR.		733) ι Cygni Dekl.		736) h Sagittarii AR.		736) h Sagittarii Dekl.		738) θ Cygni AR.		738) θ Cygni Dekl.		741) γ Aquilae AR.		741) γ Aquilae Dekl.	
1919	$19^h\ 27^m$		+51° 33′		$19^h\ 31^m$		−25° 3′		$19^h\ 34^m$		+50° 1′		$19^h\ 42^m$		+10° 24′	
Jan. 1.0	38.335	17	32.05	323	46.507	99	46.15	40	14.749	12	67.01	317	24.178	62	59.50	169
11.0	38.352	81	28.82	327	46.606	138	45.75	44	14.761	73	63.84	322	24.240	99	57.81	167
21.0	38.433	142	25.55	318	46.744	175	45.31	47	14.834	132	60.62	315	24.339	133	56.14	160
31.0	38.575	200	22.37	296	46.919	206	44.84	52	14.966	187	57.47	295	24.472	165	54.54	144
Feb. 9.9	38.775	253	19.41	264	47.125	234	44.32	57	15.153	240	54.52	263	24.637	193	53.10	122
19.9	39.028	299	16.77	220	47.359	259	43.75	63	15.393	285	51.89	221	24.830	218	51.88	93
März 1.9	39.327	339	14.57	168	47.618	279	43.12	71	15.678	325	49.68	171	25.048	241	50.95	59
11.8	39.666	370	12.89	110	47.897	295	42.41	76	16.003	355	47.97	112	25.289	259	50.36	22
21.8	40.036	392	11.79	46	48.192	310	41.65	82	16.358	379	46.85	51	25.548	274	50.14	$\overline{17}$
31.8	40.428	403	11.33	$\overline{17}$	48.502	319	40.83	87	16.737	392	46.34	$\overline{11}$	25.822	286	50.31	56
Apr. 10.8	40.831	406	11.50	79	48.821	325	39.96	89	17.129	396	46.45	75	26.108	292	50.87	93
20.7	41.237	398	12.29	139	49.146	326	39.07	89	17.525	391	47.20	134	26.400	294	51.80	128
30.7	41.635	380	13.68	194	49.472	320	38.18	85	17.916	375	48.54	188	26.694	289	53.08	157
Mai 10.7	42.015	353	15.62	240	49.792	310	37.33	79	18.291	350	50.42	235	26.983	280	54.65	182
20.7	42.368	316	18.02	280	50.102	293	36.54	70	18.641	317	52.77	275	27.263	264	56.47	201
30.6	42.684	271	20.82	311	50.395	268	35.84	58	18.958	274	55.52	307	27.527	240	58.48	213
Juni 9.6	42.955	220	23.93	333	50.663	238	35.26	45	19.232	226	58.59	330	27.767	212	60.61	219
19.6	43.175	163	27.26	345	50.901	201	34.81	30	19.458	171	61.89	343	27.979	179	62.80	219
29.5	43.338	101	30.71	349	51.102	160	34.51	16	19.629	113	65.32	347	28.158	140	64.99	214
Juli 9.5	43.439	39	34.20	345	51.262	114	34.35	0	19.742	51	68.79	344	28.298	98	67.13	204
19.5	43.478	$\overline{25}$	37.65	332	51.376	66	34.35	13	19.793	$\overline{11}$	72.23	333	28.396	54	69.17	189
29.5	43.453	88	40.97	313	51.442	17	34.48	24	19.782	73	75.56	313	28.450	10	71.06	171
Aug. 8.4	43.365	147	44.10	285	51.459	$\overline{31}$	34.72	34	19.709	130	78.69	289	28.460	$\overline{33}$	72.77	151
18.4	43.218	201	46.95	254	51.428	76	35.06	39	19.579	184	81.58	256	28.427	74	74.28	128
28.4	43.017	250	49.49	216	51.352	116	35.45	43	19.395	231	84.14	220	28.353	110	75.56	103
Sept. 7.4	42.767	287	51.65	173	51.236	148	35.88	42	19.164	270	86.34	179	28.243	140	76.59	78
17.3	42.480	316	53.38	128	51.088	173	36.30	38	18.894	299	88.13	134	28.103	162	77.37	52
27.3	42.164	334	54.66	79	50.915	186	36.68	32	18.595	318	89.47	86	27.941	175	77.89	25
Okt. 7.3	41.830	339	55.45	28	50.729	190	37.00	24	18.277	324	90.33	35	27.766	180	78.14	$\overline{1}$
17.2	41.491	334	55.73	$\overline{25}$	50.539	182	37.24	14	17.953	320	90.68	$\overline{17}$	27.586	175	78.13	27
27.2	41.157	315	55.48	77	50.357	165	37.38	5	17.633	303	90.51	69	27.411	162	77.86	54
Nov. 6.2	40.842	286	54.71	130	50.192	137	37.43	$\overline{5}$	17.330	277	89.82	121	27.249	139	77.32	78
16.2	40.556	247	53.41	179	50.055	102	37.38	14	17.053	241	88.61	170	27.110	111	76.54	103
26.1	40.309	200	51.62	223	49.953	63	37.24	22	16.812	195	86.91	216	26.999	79	75.51	125
Dez. 6.1	40.109	146	49.39	264	49.890	19	37.02	27	16.617	144	84.75	255	26.920	41	74.26	143
16.1	39.963	86	46.75	295	49.871	$\overline{26}$	36.75	32	16.473	88	82.20	288	26.879	2	72.83	158
26.1	39.877	24	43.80	317	49.897	68	36.43	36	16.385	27	79.32	311	26.877	$\overline{36}$	71.25	167
36.0	39.853		40.63		49.965		36.07		16.358		76.21		26.913		69.58	
Mittl. Ort	39.855		23.80		46.778		48.53		16.151		58.29		24.526		53.92	
sec δ, tg δ	1.608		+ 1.260		1.104		−0.468		1.557		+ 1.193		1.017		+0.184	

Mittlere Zeit Greenw.	742) δ Cygni				743) δ Sagittae				745) α Aquilae*)				747) ε Draconis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	19h 42m		+44° 55′		19h 43m		+18° 19′		19h 46m		+8° 39′		19h 48m		+70° 3′	
Jan. 1.0	25.500	14	65.47	303	46.115	54	67.35	208	49.545	63	17.95	156	23.70	13	53.24	326
11.0	25.514	68	62.44	309	46.169	91	65.27	207	49.608	100	16.39	155	23.57	1	49.98	339
21.0	25.582	121	59.35	303	46.260	128	63.20	200	49.708	133	14.84	147	23.56	11	46.59	338
31.0	25.703	171	56.32	284	46.388	162	61.20	184	49.841	164	13.37	132	23.67	22	43.21	325
Feb. 9.9	25.874	217	53.48	255	46.550	191	59.36	159	50.005	193	12.05	110	23.89	34	39.96	298
19.9	26.091	259	50.93	215	46.741	219	57.77	126	50.198	218	10.95	83	24.23	44	36.98	259
März 1.9	26.350	295	48.78	166	46.960	244	56.51	88	50.416	240	10.12	50	24.67	52	34.39	211
11.9	26.645	324	47.12	111	47.204	263	55.63	46	50.656	259	9.62	14	25.19	60	32.28	155
21.8	26.969	347	46.01	52	47.467	279	55.17	0	50.915	274	9.48	23	25.79	64	30.73	92
31.8	27.316	362	45.49	10	47.746	291	55.17	45	51.189	285	9.71	61	26.43	68	29.81	28
Apr. 10.8	27.678	367	45.59	70	48.037	298	55.62	89	51.474	293	10.32	97	27.11	68	29.53	38
20.7	28.045	366	46.29	128	48.335	299	56.51	130	51.767	294	11.29	129	27.79	67	29.91	101
30.7	28.411	355	47.57	181	48.634	294	57.81	167	52.061	291	12.58	158	28.46	65	30.92	160
Mai 10.7	28.766	334	49.38	227	48.928	284	59.48	197	52.352	281	14.16	181	29.11	59	32.52	214
20.7	29.100	306	51.65	266	49.212	266	61.45	222	52.633	265	15.97	197	29.70	52	34.66	260
30.6	29.406	271	54.31	297	49.478	242	63.67	239	52.898	243	17.94	209	30.22	45	37.26	299
Juni 9.6	29.677	228	57.28	319	49.720	212	66.06	249	53.141	215	20.03	214	30.67	35	40.25	328
19.6	29.905	179	60.47	333	49.932	177	68.55	253	53.356	182	22.17	214	31.02	25	43.53	349
29.6	30.084	126	63.80	338	50.109	137	71.08	251	53.538	143	24.31	207	31.27	14	47.02	360
Juli 9.5	30.210	70	67.18	335	50.246	94	73.59	242	53.681	102	26.38	196	31.41	3	50.62	364
19.5	30.280	12	70.53	324	50.340	49	76.01	227	53.783	59	28.34	182	31.44	8	54.26	357
29.5	30.292	44	73.77	306	50.389	3	78.28	210	53.842	13	30.16	163	31.36	18	57.83	345
Aug. 8.4	30.248	98	76.83	281	50.392	40	80.38	188	53.855	29	31.79	143	31.18	29	61.28	323
18.4	30.150	150	79.64	251	50.352	82	82.26	163	53.826	70	33.22	121	30.89	39	64.51	295
28.4	30.000	193	82.15	217	50.270	119	83.89	134	53.756	106	34.43	97	30.50	47	67.46	261
Sept. 7.4	29.807	231	84.32	177	50.151	148	85.23	104	53.650	136	35.40	73	30.03	54	70.07	223
17.3	29.576	259	86.09	133	50.003	172	86.27	74	53.514	158	36.13	47	29.49	59	72.30	177
27.3	29.317	278	87.42	87	49.831	186	87.01	42	53.356	173	36.60	23	28.90	64	74.07	129
Okt. 7.3	29.039	285	88.29	39	49.645	191	87.43	8	53.183	176	36.83	3	28.26	66	75.36	76
17.2	28.754	281	88.68	11	49.454	186	87.51	25	53.007	172	36.80	27	27.60	67	76.12	22
27.2	28.473	268	88.57	61	49.268	174	87.26	58	52.835	159	36.53	51	26.93	65	76.34	34
Nov. 6.2	28.205	245	87.96	111	49.094	150	86.68	90	52.676	137	36.02	74	26.28	61	76.00	91
16.2	27.960	211	86.85	159	48.944	123	85.78	121	52.539	109	35.28	97	25.67	57	75.09	146
26.1	27.749	172	85.26	204	48.821	90	84.57	148	52.430	75	34.31	117	25.10	49	73.63	198
Dez. 6.1	27.577	125	83.22	242	48.731	53	83.09	173	52.355	40	33.14	134	24.61	41	71.65	246
16.1	27.452	75	80.80	274	48.678	14	81.36	192	52.315	1	31.80	147	24.20	31	69.19	284
26.1	27.377	22	78.06	296	48.664	27	79.44	205	52.314	37	30.33	157	23.89	20	66.35	316
36.0	27.355		75.10		48.691		77.39		52.351		28.76		23.69		63.19	
Mittl. Ort	26.617		56.49		46.554		60.89		49.871		12.53		27.28		41.79	
sec δ, tg δ	1.412		+0.998		1.053		+0.331		1.012		+0.152		2.932		+2.757	

*) Die jährliche Parallaxe (0.″23) ist bereits berücksichtigt

Mittlere Zeit Greenw.	748) ε Pavonis AR.		748) ε Pavonis Dekl.		749) β Aquilae AR.		749) β Aquilae Dekl.		750) ψ Cygni AR.		750) ψ Cygni Dekl.		751) ϑ^1 Sagittarii AR.		751) ϑ^1 Sagittarii Dekl.	
1919	$19^h 51^m$		$-73° 7'$		$19^h 51^m$		$+6° 12'$		$19^h 53^m$		$+52° 13'$		$19^h 54^m$		$-35° 29'$	
	s		″		s		″		s		″		s		″	
Jan. 1.1	12.35	9	34.24	304	19.775	57	18.13	145	30.728	23	34.69	313	27.650	78	46.11	109
11.0	12.44	22	31.20	310	19.832	94	16.68	143	30.705	41	31.56	322	27.728	122	45.02	114
21.0	12.66	36	28.10	306	19.926	127	15.25	136	30.746	103	28.34	320	27.850	163	43.88	120
31.0	13.02	47	25.04	296	20.053	158	13.89	121	30.849	163	25.14	304	28.013	201	42.68	123
Feb. 9.9	13.49	58	22.08	279	20.211	186	12.68	102	31.012	220	22.10	277	28.214	234	41.45	125
19.9	14.07	67	19.29	256	20.397	212	11.66	75	31.232	272	19.33	239	28.448	264	40.20	126
März 1.9	14.74	74	16.73	228	20.609	234	10.91	45	31.504	317	16.94	190	28.712	289	38.94	126
11.9	15.48	81	14.45	196	20.843	254	10.46	11	31.821	355	15.04	135	29.001	312	37.68	123
21.8	16.29	86	12.49	160	21.097	270	10.35	24	32.176	384	13.69	75	29.313	331	36.45	119
31.8	17.15	89	10.89	122	21.367	282	10.59	60	32.560	403	12.94	11	29.644	345	35.26	114
Apr. 10.8	18.04	90	9.67	81	21.649	291	11.19	94	32.963	413	12.83	51	29.989	355	34.12	106
20.8	18.94	91	8.86	39	21.940	294	12.13	124	33.376	412	13.34	113	30.344	359	33.06	94
30.7	19.85	89	8.47	3	22.234	292	13.37	150	33.788	400	14.47	168	30.703	358	32.12	81
Mai 10.7	20.74	85	8.50	47	22.526	283	14.87	172	34.188	379	16.15	220	31.061	350	31.31	65
20.7	21.59	80	8.97	88	22.809	269	16.59	188	34.567	346	18.35	262	31.411	333	30.66	47
30.6	22.39	73	9.85	126	23.078	247	18.47	197	34.913	306	20.97	298	31.744	311	30.19	26
Juni 9.6	23.12	64	11.11	163	23.325	221	20.44	201	35.219	257	23.95	324	32.055	279	29.93	6
19.6	23.76	53	12.74	194	23.546	188	22.45	201	35.476	201	27.19	342	32.334	242	29.87	15
29.6	24.29	41	14.68	220	23.734	151	24.46	193	35.677	142	30.61	350	32.576	197	30.02	36
Juli 9.5	24.70	29	16.88	239	23.885	109	26.39	183	35.819	78	34.11	351	32.773	148	30.38	54
19.5	24.99	14	19.27	251	23.994	66	28.22	169	35.897	12	37.62	343	32.921	95	30.92	69
29.5	25.13	0	21.78	255	24.060	21	29.91	151	35.909	52	41.05	328	33.016	41	31.61	83
Aug. 8.5	25.13	14	24.33	249	24.081	22	31.42	131	35.857	114	44.33	306	33.057	14	32.44	90
18.4	24.99	27	26.82	235	24.059	63	32.73	110	35.743	172	47.39	277	33.043	65	33.34	95
28.4	24.72	40	29.17	211	23.996	100	33.83	88	35.571	223	50.16	242	32.978	112	34.29	93
Sept. 7.4	24.32	50	31.28	179	23.896	131	34.71	64	35.348	267	52.58	203	32.866	152	35.22	86
17.3	23.82	59	33.07	139	23.765	154	35.35	41	35.081	300	54.61	160	32.714	182	36.08	76
27.3	23.23	65	34.46	93	23.611	168	35.76	19	34.781	325	56.21	112	32.532	203	36.84	61
Okt. 7.3	22.58	67	35.39	42	23.443	175	35.95	4	34.456	336	57.33	61	32.329	212	37.45	43
17.3	21.91	68	35.81	11	23.268	171	35.91	27	34.120	337	57.94	10	32.117	208	37.88	22
27.2	21.23	64	35.70	66	23.097	158	35.64	48	33.783	325	58.04	44	31.909	194	38.10	1
Nov. 6.2	20.59	59	35.04	118	22.939	138	35.16	70	33.458	302	57.60	97	31.715	168	38.11	21
16.2	20.00	50	33.86	167	22.801	111	34.46	90	33.156	270	56.63	149	31.547	135	37.90	41
26.2	19.50	40	32.19	211	22.690	80	33.56	108	32.886	227	55.14	197	31.412	94	37.49	60
Dez. 6.1	19.10	27	30.08	246	22.610	43	32.48	124	32.659	179	53.17	240	31.318	49	36.89	77
16.1	18.83	13	27.62	275	22.567	6	31.24	137	32.480	122	50.77	276	31.269	2	36.12	90
26.1	18.70	1	24.87	295	22.561	32	29.87	144	32.358	63	48.01	304	31.267	45	35.22	101
36.0	18.69		21.92		22.593		28.43		32.295		44.97		31.312		34.21	
Mittl. Ort	14.79		33.72		20.068		12.73		32.164		24.12		27.986		47.19	
sec δ, tg δ	3.445		−3.297		1.006		+0.109		1.632		+1.290		1.228		−0.713	

Mittlere Zeit Greenw.	752) γ Sagittae AR.		Dekl.		754) δ Pavonis AR.		Dekl.		756) ϑ Aquilae AR.		Dekl.		757) o¹ Cygni sq. AR.		Dekl.	
1919	19h 55m		+19° 16′		20h 0m		−66° 23′		20h 7m		−1° 3′		20h 11m		+46° 29′	
Jan. 1.1	8.850 s	42	23.75 "	207	46.08 s	7	25.54 "	273	7.352 s	48	40.73 "	99	3.811 s	27	53.47 "	293
11.0	8.892	79	21.68	210	46.15	16	22.81	280	7.400	83	41.72	95	3.784	28	50.54	305
21.0	8.971	116	19.58	202	46.31	26	20.01	282	7.483	116	42.67	89	3.812	81	47.49	304
31.0	9.087	150	17.56	187	46.57	35	17.19	275	7.599	147	43.56	76	3.893	134	44.45	293
Feb. 9.9	9.237	182	15.69	164	46.92	41	14.44	263	7.746	175	44.32	58	4.027	185	41.52	269
19.9	9.419	210	14.05	132	47.33	49	11.81	246	7.921	202	44.90	37	4.212	231	38.83	233
März 1.9	9.629	236	12.73	94	47.82	54	9.35	223	8.123	225	45.27	12	4.443	274	36.50	189
11.9	9.865	257	11.79	51	48.36	59	7.12	197	8.348	246	45.39	16	4.717	310	34.61	138
21.8	10.122	277	11.28	7	48.95	63	5.15	167	8.594	264	45.23	45	5.027	340	33.23	80
31.8	10.399	290	11.21	40	49.58	66	3.48	133	8.858	279	44.78	74	5.367	361	32.43	20
Apr. 10.8	10.689	298	11.61	84	50.24	67	2.15	98	9.137	290	44.04	100	5.728	375	32.23	42
20.8	10.987	302	12.45	127	50.91	68	1.17	60	9.427	296	43.04	125	6.103	380	32.65	100
30.7	11.289	299	13.72	164	51.59	67	0.57	21	9.723	296	41.79	145	6.483	374	33.65	155
Mai 10.7	11.588	289	15.36	196	52.26	65	0.36	18	10.019	291	40.34	160	6.857	361	35.20	205
20.7	11.877	273	17.32	221	52.91	61	0.54	58	10.310	279	38.74	170	7.218	336	37.25	249
30.7	12.150	251	19.53	241	53.52	57	1.12	95	10.589	261	37.04	175	7.554	304	39.74	284
Juni 9.6	12.401	222	21.94	253	54.09	51	2.07	131	10.850	236	35.29	176	7.858	264	42.58	311
19.6	12.623	187	24.47	257	54.60	43	3.38	163	11.086	205	33.53	170	8.122	217	45.69	330
29.6	12.810	148	27.04	256	55.03	35	5.01	191	11.291	169	31.83	162	8.339	166	48.99	340
Juli 9.5	12.958	104	29.60	249	55.38	25	6.92	212	11.460	128	30.21	149	8.505	107	52.39	342
19.5	13.062	60	32.09	236	55.63	15	9.04	226	11.588	85	28.72	134	8.612	49	55.81	337
29.5	13.122	14	34.45	218	55.78	5	11.30	234	11.673	41	27.38	117	8.661	9	59.18	323
Aug. 8.5	13.136	31	36.63	196	55.83	6	13.64	233	11.714	4	26.21	97	8.652	67	62.41	303
18.4	13.105	73	38.59	171	55.77	16	15.97	224	11.710	46	25.24	79	8.585	121	65.44	276
28.4	13.032	111	40.30	144	55.61	26	18.21	206	11.664	84	24.45	60	8.464	169	68.20	245
Sept. 7.4	12.921	143	41.74	114	55.35	33	20.27	179	11.580	117	23.85	41	8.295	212	70.65	208
17.4	12.778	167	42.88	82	55.02	40	22.06	145	11.463	142	23.44	23	8.083	245	72.73	167
27.3	12.611	183	43.70	50	54.62	44	23.51	105	11.321	160	23.21	6	7.838	270	74.40	122
Okt. 7.3	12.428	190	44.20	16	54.18	47	24.56	59	11.161	167	23.15	10	7.568	283	75.62	75
17.3	12.238	187	44.36	17	53.71	47	25.15	11	10.994	166	23.25	26	7.285	286	76.37	24
27.2	12.051	176	44.19	51	53.24	45	25.26	39	10.828	157	23.51	40	6.999	280	76.61	26
Nov. 6.2	11.875	156	43.68	84	52.79	41	24.87	89	10.671	138	23.91	54	6.719	261	76.35	78
16.2	11.719	130	42.84	116	52.38	35	23.98	135	10.533	113	24.45	67	6.458	236	75.57	128
26.2	11.589	98	41.68	145	52.03	27	22.63	175	10.420	83	25.12	78	6.222	200	74.29	175
Dez. 6.1	11.491	63	40.23	170	51.76	19	20.88	212	10.337	50	25.90	88	6.022	159	72.54	218
16.1	11.428	24	38.53	190	51.57	9	18.76	241	10.287	14	26.78	96	5.863	112	70.36	254
26.1	11.404	15	36.63	205	51.48	1	16.35	261	10.273	23	27.74	99	5.751	62	67.82	282
36.1	11.419		34.58		51.49		13.74		10.296		28.73		5.689		65.00	
Mittl. Ort	9.273		16.66		47.58		24.57		7.568		45.56		4.859		42.08	
sec δ, tg δ	1.059		+0.350		2.497		−2.288		1.000		−0.019		1.453		+1.054	

Mittlere Zeit Greenw.	759) ϰ Cephei AR.		759) ϰ Cephei Dekl.		760) 24 Vulpeculae AR.		760) 24 Vulpeculae Dekl.		761) α^2 Capricorni AR.		761) α^2 Capricorni Dekl.		764) α Pavonis AR.		764) α Pavonis Dekl.	
1919	20h 11m		+77° 27′		20h 13m		+24° 25′		20h 13m		−12° 47′		20h 19m		−56° 59′	
Jan. 1.1	32.65s	36	79.25″	307	18.673s	18	23.43″	223	33.535s	48	45.14″	28	14.083s	37	46.11″	229
11.0	32.29	18	76.18	328	18.691	56	21.20	228	33.583	85	45.42	23	14.120	105	43.82	241
21.0	32.11	2	72.90	334	18.747	94	18.92	224	33.668	118	45.65	15	14.225	170	41.41	248
31.0	32.13	21	69.56	329	18.841	131	16.68	210	33.786	149	45.80	4	14.395	230	38.93	249
Feb. 9.9	32.34	39	66.27	310	18.972	165	14.58	188	33.935	178	45.84	9	14.625	286	36.44	244
19.9	32.73	56	63.17	280	19.137	197	12.70	157	34.113	205	45.75	25	14.911	335	34.00	235
März 1.9	33.29	72	60.37	237	19.334	226	11.13	118	34.318	229	45.50	43	15.246	380	31.65	222
11.9	34.01	84	58.00	186	19.560	253	9.95	75	34.547	250	45.07	61	15.626	419	29.43	204
21.8	34.85	94	56.14	128	19.813	274	9.20	27	34.797	270	44.46	79	16.045	452	27.39	183
31.8	35.79	101	54.86	66	20.087	292	8.93	22	35.067	285	43.67	97	16.497	477	25.56	158
Apr. 10.8	36.80	104	54.20	1	20.379	304	9.15	70	35.352	298	42.70	112	16.974	497	23.98	131
20.8	37.84	103	54.19	62	20.683	310	9.85	117	35.650	305	41.58	124	17.471	507	22.67	100
30.7	38.87	99	54.81	123	20.993	310	11.02	159	35.955	307	40.34	134	17.978	508	21.67	68
Mai 10.7	39.86	93	56.04	179	21.303	302	12.61	196	36.262	303	39.00	138	18.486	501	20.99	33
20.7	40.79	83	57.83	230	21.605	288	14.57	226	36.565	292	37.62	137	18.987	481	20.66	2
30.7	41.62	72	60.13	272	21.893	266	16.83	250	36.857	275	36.25	133	19.468	452	20.68	38
Juni 9.6	42.34	58	62.85	307	22.159	238	19.33	267	37.132	251	34.92	126	19.920	410	21.06	72
19.6	42.92	42	65.92	334	22.397	204	22.00	275	37.383	220	33.66	114	20.330	359	21.78	104
29.6	43.34	26	69.26	352	22.601	163	24.75	278	37.603	183	32.52	101	20.689	299	22.82	134
Juli 9.5	43.60	10	72.78	361	22.764	121	27.53	274	37.786	143	31.51	85	20.988	229	24.16	159
19.5	43.70	8	76.39	362	22.885	73	30.27	263	37.929	99	30.66	67	21.217	155	25.75	177
29.5	43.62	24	80.01	355	22.958	27	32.90	247	38.028	53	29.99	50	21.372	77	27.52	192
Aug. 8.5	43.38	41	83.56	340	22.985	19	35.37	226	38.081	7	29.49	34	21.449	3	29.44	198
18.4	42.97	56	86.96	319	22.966	64	37.63	201	38.088	38	29.15	19	21.446	80	31.42	197
28.4	42.41	69	90.15	290	22.902	104	39.64	173	38.050	78	28.96	4	21.366	152	33.39	187
Sept. 7.4	41.72	81	93.05	255	22.798	139	41.37	142	37.972	112	28.92	7	21.214	216	35.26	169
17.4	40.91	91	95.60	215	22.659	165	42.79	108	37.860	140	28.99	16	20.998	268	36.95	146
27.3	40.00	98	97.75	170	22.494	185	43.87	73	37.720	159	29.15	24	20.730	306	38.41	114
Okt. 7.3	39.02	104	99.45	120	22.309	194	44.60	37	37.561	169	29.39	29	20.424	329	39.55	77
17.3	37.98	107	100.65	67	22.115	195	44.97	1	37.392	168	29.68	32	20.095	335	40.32	37
27.2	36.91	106	101.32	11	21.920	188	44.96	38	37.224	159	30.00	35	19.760	325	40.69	6
Nov. 6.2	35.85	103	101.43	46	21.732	171	44.58	76	37.065	141	30.35	35	19.435	298	40.63	48
16.2	34.82	98	100.97	103	21.561	147	43.82	112	36.924	116	30.70	37	19.137	258	40.15	91
26.2	33.84	89	99.94	158	21.414	119	42.70	145	36.808	86	31.07	36	18.879	206	39.24	129
Dez. 6.1	32.95	77	98.36	210	21.295	85	41.25	175	36.722	51	31.43	37	18.673	146	37.95	164
16.1	32.18	63	96.26	254	21.210	48	39.50	199	36.671	14	31.80	35	18.527	79	36.31	192
26.1	31.55	47	93.72	292	21.162	9	37.51	217	36.657	23	32.15	32	18.448	10	34.39	216
36.1	31.08		90.80		21.153		35.34		36.680		32.47		18.438		32.23	
Mittl. Ort	38.52		65.09		19.117		14.78		33.715		48.41		14.930		44.55	
sec δ, tg δ	4.609		+4.499		1.098		+0.454		1.025		−0.227		1.836		−1.540	

Mittlere Zeit Greenw.	765) γ Cygni AR.		765) γ Cygni Dekl.		767) ϑ Cephei AR.		767) ϑ Cephei Dekl.		768) ε Delphini AR.		768) ε Delphini Dekl.		769) α Indi AR.		769) α Indi Dekl.	
1919	20h 19m		+39° 59′		20h 28m		+62° 43′		20h 29m		+11° 1′		20h 31m		−47° 34′	
Jan. 1.1	18.476	18	59.48	273	11.48	14	31.99	302	20.366	18	44.77	156	51.998	26	31.35	177
11.0	18.458	30	56.75	284	11.34	5	28.97	322	20.384	53	43.21	158	52.024	79	29.58	192
21.0	18.488	76	53.91	284	11.29	3	25.75	331	20.437	86	41.63	153	52.103	129	27.66	202
31.0	18.564	122	51.07	272	11.32	11	22.44	325	20.523	119	40.10	140	52.232	177	25.64	208
Feb. 10.0	18.686	167	48.35	251	11.43	20	19.19	308	20.642	150	38.70	122	52.409	222	23.56	209
19.9	18.853	208	45.84	217	11.63	28	16.11	277	20.792	179	37.48	96	52.631	262	21.47	208
März 1.9	19.061	246	43.67	176	11.91	34	13.34	237	20.971	207	36.52	64	52.893	300	19.39	202
11.9	19.307	280	41.91	126	12.25	41	10.97	186	21.178	231	35.88	30	53.193	332	17.37	194
21.9	19.587	308	40.65	72	12.66	47	9.11	128	21.409	254	35.58	8	53.525	362	15.43	181
31.8	19.895	329	39.93	14	13.13	49	7.83	66	21.663	272	35.66	47	53.887	386	13.62	165
Apr. 10.8	20.224	344	39.79	43	13.62	53	7.17	3	21.935	287	36.13	85	54.273	405	11.97	147
20.8	20.568	351	40.22	100	14.15	53	7.14	61	22.222	296	36.98	120	54.678	418	10.50	124
30.7	20.919	349	41.22	152	14.68	53	7.75	123	22.518	300	38.18	152	55.096	423	9.26	100
Mai 10.7	21.268	340	42.74	199	15.21	50	8.98	179	22.818	297	39.70	179	55.519	420	8.26	72
20.7	21.608	320	44.73	240	15.71	47	10.77	230	23.115	287	41.49	200	55.939	408	7.54	42
30.7	21.928	294	47.13	273	16.18	42	13.07	273	23.402	270	43.49	215	56.347	387	7.12	12
Juni 9.6	22.222	259	49.86	299	16.60	36	15.80	309	23.672	247	45.64	224	56.734	357	7.00	20
19.6	22.481	219	52.85	317	16.96	30	18.89	335	23.919	217	47.88	227	57.091	317	7.20	50
29.6	22.700	172	56.02	325	17.26	22	22.24	354	24.136	182	50.15	224	57.408	269	7.70	79
Juli 9.6	22.872	121	59.27	327	17.48	13	25.78	364	24.318	142	52.39	217	57.677	215	8.49	106
19.5	22.993	68	62.54	321	17.61	6	29.42	366	24.460	98	54.56	204	57.892	153	9.55	127
29.5	23.061	14	65.75	308	17.67	3	33.08	358	24.558	54	56.60	187	58.045	89	10.82	144
Aug. 8.5	23.075	39	68.83	288	17.64	11	36.66	344	24.612	9	58.47	167	58.134	24	12.26	156
18.4	23.036	90	71.71	263	17.53	19	40.10	322	24.621	34	60.14	145	58.158	40	13.82	160
28.4	22.946	135	74.34	232	17.34	26	43.32	293	24.587	74	61.59	121	58.118	100	15.42	159
Sept. 7.4	22.811	174	76.66	198	17.08	33	46.25	259	24.513	108	62.80	96	58.018	154	17.01	150
17.4	22.637	207	78.64	158	16.75	37	48.84	218	24.405	136	63.76	71	57.864	198	18.51	133
27.3	22.430	230	80.22	116	16.38	42	51.02	173	24.269	156	64.47	44	57.666	231	19.84	112
Okt. 7.3	22.200	243	81.38	72	15.96	44	52.75	124	24.113	167	64.91	17	57.435	252	20.96	85
17.3	21.957	247	82.10	25	15.52	46	53.99	71	23.946	171	65.08	9	57.183	259	21.81	52
27.3	21.710	241	82.35	23	15.06	46	54.70	15	23.775	164	64.99	35	56.924	252	22.33	19
Nov. 6.2	21.469	226	82.12	71	14.60	45	54.85	41	23.611	150	64.64	61	56.672	233	22.52	17
16.2	21.243	202	81.41	117	14.15	41	54.44	98	23.461	130	64.03	84	56.439	203	22.35	52
26.2	21.041	172	80.24	162	13.74	37	53.46	153	23.331	104	63.19	107	56.236	162	21.83	85
Dez. 6.1	20.869	135	78.62	203	13.37	33	51.93	204	23.227	74	62.12	127	56.074	116	20.98	115
16.1	20.734	93	76.59	236	13.04	26	49.89	250	23.153	41	60.85	142	55.958	65	19.83	142
26.1	20.641	49	74.23	263	12.78	19	47.39	286	23.112	7	59.43	154	55.893	11	18.41	163
36.1	20.592		71.60		12.59		44.53		23.105		57.89		55.882		16.78	
Mittl. Ort	19.245		48.31		13.51		17.45		20.597		37.58		52.494		29.95	
sec δ, tg δ	1.305		+0.839		2.182		+1.939		1.019		+0.195		1.482		−1.094	

Mittlere Zeit Greenw.	770) 73 Draconis				771) β Delphini				773) υ Capricorni				774) α Delphini			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$20^h\ 32^m$		$+74°\ 40'$		$20^h\ 33^m$		$+14°\ 18'$		$20^h\ 35^m$		$-18°\ 25'$		$20^h\ 35^m$		$+15°\ 37'$	
Jan. 1.1	31.32	34	54.00	296	44.794	11	53.04	170	26.312	28	26.78	8	52.298	8	39.88	176
11.1	30.98	20	51.04	320	44.805	46	51.34	174	26.340	65	26.70	17	52.306	42	38.12	179
21.0	30.78	4	47.84	332	44.851	80	49.60	169	26.405	99	26.53	26	52.348	77	36.33	176
31.0	30.74	11	44.52	332	44.931	113	47.91	158	26.504	131	26.27	37	52.425	110	34.57	164
Feb. 10.0	30.85	27	41.20	319	45.044	145	46.33	139	26.635	162	25.90	49	52.535	143	32.93	145
19.9	31.12	41	38.01	291	45.189	175	44.94	112	26.797	190	25.41	63	52.678	174	31.48	119
März 1.9	31.53	54	35.10	254	45.364	204	43.82	80	26.987	217	24.78	78	52.852	202	30.29	86
11.9	32.07	66	32.56	206	45.568	230	43.02	44	27.204	242	24.00	92	53.054	229	29.43	49
21.9	32.73	75	30.50	150	45.798	254	42.58	3	27.446	265	23.08	106	53.283	254	28.94	8
31.8	33.48	82	29.00	89	46.052	273	42.55	38	27.711	283	22.02	119	53.537	273	28.86	33
Apr. 10.8	34.30	85	28.11	26	46.325	288	42.93	78	27.994	300	20.83	128	53.810	288	29.19	76
20.8	35.15	87	27.85	39	46.613	298	43.71	116	28.294	311	19.55	134	54.098	299	29.95	114
30.8	36.02	85	28.24	100	46.911	302	44.87	152	28.605	316	18.21	139	54.397	304	31.09	151
Mai 10.7	36.87	81	29.24	159	47.213	300	46.39	180	28.921	316	16.82	137	54.701	301	32.60	181
20.7	37.68	75	30.83	211	47.513	290	48.19	205	29.237	308	15.45	132	55.002	291	34.41	207
30.7	38.43	66	32.94	257	47.803	274	50.24	224	29.545	294	14.13	123	55.293	276	36.48	226
Juni 9.6	39.09	56	35.51	297	48.077	250	52.48	234	29.839	272	12.90	111	55.569	251	38.74	238
19.6	39.65	44	38.48	326	48.327	220	54.82	240	30.111	243	11.79	95	55.820	222	41.12	245
29.6	40.09	31	41.74	349	48.547	185	57.22	239	30.354	208	10.84	78	56.042	187	43.57	245
Juli 9.6	40.40	17	45.23	363	48.732	145	59.61	233	30.562	168	10.06	60	56.229	146	46.02	239
19.5	40.57	3	48.86	367	48.877	101	61.94	220	30.730	123	9.46	39	56.375	102	48.41	227
29.5	40.60	10	52.53	365	48.978	57	64.14	205	30.853	76	9.07	21	56.477	58	50.68	213
Aug. 8.5	40.50	24	56.18	353	49.035	10	66.19	186	30.929	28	8.86	4	56.535	11	52.81	192
18.5	40.26	37	59.71	335	49.045	32	68.05	163	30.957	18	8.82	13	56.546	31	54.73	170
28.4	39.89	49	63.06	309	49.013	73	69.68	138	30.939	61	8.95	25	56.515	73	56.43	145
Sept. 7.4	39.40	59	66.15	278	48.940	107	71.06	111	30.878	99	9.20	35	56.442	107	57.88	118
17.4	38.81	69	68.93	239	48.833	137	72.17	84	30.779	131	9.55	41	56.335	136	59.06	90
27.3	38.12	75	71.32	196	48.696	157	73.01	56	30.648	153	9.96	45	56.199	158	59.96	61
Okt. 7.3	37.37	81	73.28	148	48.539	169	73.57	26	30.495	166	10.41	46	56.041	170	60.57	30
17.3	36.56	84	74.76	95	48.370	172	73.83	2	30.329	171	10.87	42	55.871	174	60.87	1
27.3	35.72	85	75.71	40	48.198	168	73.81	32	30.158	165	11.29	39	55.697	169	60.88	29
Nov. 6.2	34.87	84	76.11	18	48.030	155	73.49	59	29.993	150	11.68	34	55.528	157	60.59	60
16.2	34.03	79	75.93	77	47.875	135	72.90	88	29.843	129	12.02	27	55.371	138	59.99	87
26.2	33.24	74	75.16	133	47.740	110	72.02	112	29.714	100	12.29	21	55.233	113	59.12	114
Dez. 6.2	32.50	65	73.83	187	47.630	80	70.90	134	29.614	68	12.50	13	55.120	83	57.98	137
16.1	31.85	55	71.96	237	47.550	48	69.56	154	29.546	33	12.63	7	55.037	51	56.61	157
26.1	31.30	43	69.59	277	47.502	14	68.02	167	29.513	3	12.70	1	54.986	17	55.04	172
36.1	30.87		66.82		47.488		66.35		29.516		12.69		54.969		53.32	
Mittl. Ort	35.58		38.07		45.039		45.15		26.453		29.08		52.548		31.68	
sec δ, tg δ	3.784		+3.650		1.032		+0.255		1.054		−0.333		1.038		+0.280	

Mittlere Zeit Greenw.	775) β Pavonis AR.		775) β Pavonis Dekl.		777) α Cygni AR.		777) α Cygni Dekl.		780) ε Cygni AR.		780) ε Cygni Dekl.		781) ε Aquarii AR.		781) ε Aquarii Dekl.	
	$20^h 37^m$		−66° 29′		$20^h 38^m$		+44° 59′		$20^h 42^m$		+33° 39′		$20^h 43^m$		−9° 47′	
1919	s		″		s		″		s		″		s		″	
Jan. 1.1	39.15	2	47.08	270	39.379	55	38.11	273	55.511	27	69.88	240	17.443	19	31.36	41
11.1	39.13	—6	44.38	287	39.324	4	35.38	290	55.484	—14	67.48	253	17.462	53	31.77	36
21.0	39.19	16	41.51	297	39.320	—46	32.48	295	55.498	55	64.95	255	17.515	85	32.13	26
31.0	39.35	24	38.54	299	39.366	97	29.53	288	55.553	97	62.40	247	17.600	116	32.39	15
Feb. 10.0	39.59	32	35.55	294	39.463	147	26.65	270	55.650	137	59.93	229	17.716	147	32.54	0
19.9	39.91	40	32.61	283	39.610	195	23.95	240	55.787	175	57.64	201	17.863	175	32.54	18
März 1.9	40.31	46	29.78	267	39.805	240	21.55	201	55.962	213	55.63	163	18.038	202	32.36	38
11.9	40.77	52	27.11	245	40.045	279	19.54	154	56.175	246	54.00	119	18.240	226	31.98	59
21.9	41.29	57	24.66	218	40.324	315	18.00	100	56.421	276	52.81	69	18.466	250	31.39	80
31.8	41.86	61	22.48	188	40.639	342	17.00	42	56.697	300	52.12	17	18.716	270	30.59	101
Apr. 10.8	42.47	65	20.60	154	40.981	362	16.58	—18	56.997	319	51.95	—38	18.986	287	29.58	120
20.8	43.12	66	19.06	117	41.343	373	16.76	75	57.316	331	52.33	89	19.273	299	28.38	135
30.8	43.78	66	17.89	76	41.716	375	17.51	132	57.647	335	53.22	140	19.572	305	27.03	147
Mai 10.7	44.44	66	17.13	36	42.091	368	18.83	182	57.982	331	54.62	184	19.877	306	25.56	155
20.7	45.10	64	16.77	—7	42.459	351	20.65	228	58.313	319	56.46	223	20.183	299	24.01	157
30.7	45.74	60	16.84	49	42.810	324	22.93	266	58.632	300	58.69	255	20.482	287	22.44	156
Juni 9.6	46.34	56	17.33	90	43.134	290	25.59	297	58.932	271	61.24	281	20.769	266	20.88	150
19.6	46.90	48	18.23	128	43.424	248	28.56	319	59.203	237	64.05	298	21.035	239	19.38	140
29.6	47.38	41	19.51	161	43.672	200	31.75	334	59.440	196	67.03	307	21.274	205	17.98	126
Juli 9.6	47.79	33	21.12	192	43.872	146	35.09	339	59.636	151	70.10	310	21.479	167	16.72	111
19.5	48.12	22	23.04	214	44.018	90	38.48	337	59.787	102	73.20	305	21.646	124	15.61	92
29.5	48.34	13	25.18	230	44.108	32	41.85	329	59.889	51	76.25	294	21.770	79	14.69	73
Aug. 8.5	48.47	1	27.48	238	44.140	—25	45.14	312	59.940	1	79.19	276	21.849	33	13.96	55
18.5	48.48	—9	29.86	237	44.115	79	48.26	289	59.941	—47	81.95	254	21.882	—11	13.41	36
28.4	48.39	19	32.23	226	44.036	130	51.15	262	59.894	93	84.49	226	21.871	54	13.05	19
Sept. 7.4	48.20	28	34.49	208	43.906	174	53.77	228	59.801	131	86.75	194	21.817	90	12.86	3
17.4	47.92	36	36.57	180	43.732	211	56.05	189	59.670	165	88.69	160	21.727	120	12.83	—9
27.3	47.56	41	38.37	144	43.521	239	57.94	148	59.505	189	90.29	121	21.607	143	12.92	21
Okt. 7.3	47.15	46	39.81	101	43.282	258	59.42	102	59.316	205	91.50	80	21.464	157	13.13	29
17.3	46.69	47	40.82	55	43.024	267	60.44	54	59.111	212	92.30	39	21.307	162	13.42	36
27.3	46.22	48	41.37	4	42.757	265	60.98	4	58.899	211	92.69	—6	21.145	157	13.78	41
Nov. 6.2	45.74	44	41.41	—47	42.492	254	61.02	—46	58.688	199	92.63	49	20.988	145	14.19	44
16.2	45.30	41	40.94	97	42.238	235	60.56	97	58.489	182	92.14	93	20.843	126	14.63	48
26.2	44.89	34	39.97	145	42.003	206	59.59	144	58.307	157	91.21	133	20.717	100	15.11	48
Dez. 6.2	44.55	27	38.52	187	41.797	172	58.15	190	58.150	127	89.88	172	20.617	71	15.59	50
16.1	44.28	18	36.65	223	41.625	131	56.25	228	58.023	92	88.16	204	20.546	38	16.09	48
26.1	44.10	9	34.42	254	41.494	87	53.97	260	57.931	54	86.12	230	20.508	5	16.57	46
36.1	44.01		31.88		41.407		51.37		57.877		83.82		20.503		17.03	
Mittl. Ort	40.60		43.99		40.206		24.94		56.000		58.23		17.550		35.08	
sec δ, tg δ	2.507		−2.299		1.414		+1.000		1.201		+0.666		1.015		−0.173	

Mittlere Zeit Greenw.	783) η Cephei AR.		783) η Cephei Dekl.		784) λ Cygni AR.		784) λ Cygni Dekl.		785) β Indi AR.		785) β Indi Dekl.		786) 32 Vulpeculae AR.		786) 32 Vulpeculae Dekl.	
1919	20h 43m		+61° 31′		20h 44m		+36° 11′		20h 48m		−58° 45′		20h 51m		+27° 44′	
Jan. 1.1	36.92	15	41.33	288	14.625	35	44.99	248	28.459	22	41.91	231	6.098	24	66.96	217
11.1	36.77	8	38.45	312	14.590	7	42.51	262	28.437	47	39.60	251	6.074	14	64.79	228
21.0	36.69	1	35.33	323	14.597	50	39.89	265	28.484	115	37.09	263	6.088	51	62.51	230
31.0	36.70	8	32.10	321	14.647	94	37.24	258	28.599	179	34.46	269	6.139	89	60.21	222
Feb. 10.0	36.78	16	28.89	308	14.741	135	34.66	240	28.778	240	31.77	270	6.228	127	57.99	204
20.0	36.94	25	25.81	281	14.876	176	32.26	211	29.018	297	29.07	265	6.355	162	55.95	178
März 1.9	37.19	31	23.00	242	15.052	215	30.15	174	29.315	349	26.42	255	6.517	197	54.17	143
11.9	37.50	37	20.58	195	15.267	249	28.41	130	29.664	395	23.87	240	6.714	229	52.74	101
21.9	37.87	43	18.63	140	15.516	281	27.11	78	30.059	436	21.47	220	6.943	258	51.73	56
31.8	38.30	48	17.23	80	15.797	306	26.33	26	30.495	470	19.27	197	7.201	283	51.17	6
Apr. 10.8	38.78	50	16.43	17	16.103	325	26.07	31	30.965	498	17.30	169	7.484	301	51.11	44
20.8	39.28	51	16.26	47	16.428	338	26.38	84	31.463	517	15.61	137	7.785	315	51.55	92
30.8	39.79	52	16.73	108	16.766	341	27.22	135	31.980	527	14.24	104	8.100	321	52.47	138
Mai 10.7	40.31	50	17.81	166	17.107	338	28.57	182	32.507	527	13.20	67	8.421	320	53.85	179
20.7	40.81	47	19.47	218	17.445	325	30.39	222	33.034	514	12.53	28	8.741	311	55.64	215
30.7	41.28	44	21.65	263	17.770	305	32.61	257	33.548	491	12.25	10	9.052	294	57.79	244
Juni 9.7	41.72	37	24.28	301	18.075	275	35.18	283	34.039	455	12.35	49	9.346	270	60.23	266
19.6	42.09	32	27.29	331	18.350	241	38.01	302	34.494	408	12.84	86	9.616	239	62.89	280
29.6	42.41	24	30.60	351	18.591	198	41.03	313	34.902	350	13.70	121	9.855	200	65.69	289
Juli 9.6	42.65	17	34.11	364	18.789	151	44.16	317	35.252	282	14.91	151	10.055	159	68.58	289
19.5	42.82	9	37.75	368	18.940	102	47.33	313	35.534	207	16.42	177	10.214	113	71.47	283
29.5	42.91	0	41.43	364	19.042	50	50.46	302	35.741	127	18.19	196	10.327	64	74.30	271
Aug. 8.5	42.91	7	45.07	352	19.092	2	53.48	285	35.868	43	20.15	208	10.391	17	77.01	254
18.5	42.84	15	48.59	333	19.090	51	56.33	263	35.911	38	22.23	212	10.408	30	79.55	231
28.4	42.69	22	51.92	307	19.039	97	58.96	236	35.873	118	24.35	209	10.378	74	81.86	206
Sept. 7.4	42.47	28	54.99	274	18.942	138	61.32	203	35.755	190	26.44	196	10.304	112	83.92	175
17.4	42.19	33	57.73	235	18.804	172	63.35	168	35.565	251	28.40	174	10.192	144	85.67	143
27.4	41.86	38	60.08	193	18.632	197	65.03	129	35.314	299	30.14	147	10.048	169	87.10	108
Okt. 7.3	41.48	41	62.01	144	18.435	214	66.32	87	35.015	333	31.61	111	9.879	184	88.18	71
17.3	41.07	43	63.45	92	18.221	221	67.19	43	34.682	349	32.72	70	9.695	193	88.89	32
27.3	40.64	43	64.37	38	18.000	220	67.62	2	34.333	349	33.42	27	9.502	191	89.21	7
Nov. 6.2	40.21	42	64.75	19	17.780	211	67.60	47	33.984	331	33.69	20	9.311	182	89.14	47
16.2	39.79	40	64.56	76	17.569	192	67.13	92	33.653	300	33.49	65	9.129	166	88.67	85
26.2	39.39	37	63.80	131	17.377	167	66.21	135	33.353	254	32.84	108	8.963	143	87.82	122
Dez. 6.2	39.02	32	62.49	184	17.210	137	64.86	175	33.099	199	31.76	149	8.820	115	86.60	157
16.1	38.70	26	60.65	231	17.073	102	63.11	210	32.900	136	30.27	184	8.705	84	85.03	185
26.1	38.44	20	58.34	270	16.971	63	61.01	237	32.764	69	28.43	213	8.621	49	83.18	208
36.1	38.24		55.64		16.908		58.64		32.695		26.30		8.572		81.10	
Mittl. Ort	38.68		25.65		15.163		32.84		29.324		38.71		6.438		55.94	
sec δ, tg δ	2.097		+1.844		1.239		+0.732		1.928		−1.649		1.130		+0.526	

Mittlere Zeit Greenw.	788) ν Cygni				790) ζ Microscopii				793) 61 Cygni pr.*)				794) ν Aquarii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	20h 54m		+40° 51′		20h 57m		−38° 56′		21h 3m		+38° 20′		21h 5m		−11° 41′	
1919																
Jan. 1.1	8.558	58	30.18	254	47.386	1	56.73	124	15.397	46	74.88	234	10.986	0	58.16	29
11.1	8.500	13	27.64	271	47.385	42	55.49	142	15.351	4	72.54	251	10.986	32	58.45	20
21.1	8.487	32	24.93	278	47.427	85	54.07	157	15.347	38	70.03	258	11.018	64	58.65	11
31.0	8.519	79	22.15	274	47.512	125	52.50	168	15.385	84	67.45	253	11.082	95	58.76	3
Feb. 10.0	8.598	125	19.41	257	47.637	163	50.82	176	15.469	127	64.92	239	11.177	126	58.73	17
20.0	8.723	170	16.84	232	47.800	201	49.06	183	15.596	170	62.53	213	11.303	155	58.56	35
März 1.9	8.893	213	14.52	195	48.001	234	47.23	186	15.766	212	60.40	178	11.458	184	58.21	54
11.9	9.106	252	12.57	151	48.235	268	45.37	186	15.978	250	58.62	134	11.642	211	57.67	74
21.9	9.358	288	11.06	99	48.503	297	43.51	183	16.228	285	57.28	85	11.853	238	56.93	94
31.9	9.646	316	10.07	45	48.800	323	41.68	178	16.513	314	56.43	32	12.091	260	55.99	113
Apr. 10.8	9.962	339	9.62	12	49.123	345	39.90	167	16.827	337	56.11	23	12.351	280	54.86	130
20.8	10.301	353	9.74	68	49.468	361	38.23	155	17.164	353	56.34	78	12.631	296	53.56	144
30.8	10.654	359	10.42	122	49.829	373	36.68	138	17.517	360	57.12	131	12.927	306	52.12	155
Mai 10.8	11.013	357	11.64	172	50.202	375	35.30	117	17.877	359	58.43	179	13.233	310	50.57	160
20.7	11.370	345	13.36	216	50.577	371	34.13	93	18.236	349	60.22	223	13.543	308	48.97	162
30.7	11.715	323	15.52	254	50.948	357	33.20	67	18.585	330	62.45	259	13.851	298	47.35	158
Juni 9.7	12.038	294	18.06	285	51.305	335	32.53	39	18.915	303	65.04	289	14.149	279	45.77	151
19.6	12.332	257	20.91	307	51.640	305	32.14	10	19.218	268	67.93	311	14.428	256	44.26	140
29.6	12.589	213	23.98	322	51.945	266	32.04	19	19.486	227	71.04	324	14.684	224	42.86	124
Juli 9.6	12.802	165	27.20	328	52.211	220	32.23	46	19.713	180	74.28	331	14.908	187	41.62	107
19.6	12.967	113	30.48	328	52.431	168	32.69	72	19.893	130	77.59	330	15.095	146	40.55	86
29.5	13.080	58	33.76	320	52.599	114	33.41	95	20.023	77	80.89	321	15.241	101	39.69	67
Aug. 8.5	13.138	4	36.96	304	52.713	55	34.36	112	20.100	25	84.10	307	15.342	54	39.02	46
18.5	13.142	49	40.00	285	52.768	0	35.48	124	20.125	27	87.17	286	15.396	10	38.56	27
28.4	13.093	98	42.85	257	52.768	56	36.72	131	20.098	74	90.03	260	15.406	34	38.29	9
Sept. 7.4	12.995	141	45.42	227	52.712	104	38.03	132	20.024	117	92.63	230	15.372	73	38.20	7
17.4	12.854	177	47.69	190	52.608	146	39.35	126	19.907	153	94.93	194	15.299	105	38.27	20
27.4	12.677	207	49.59	151	52.462	179	40.61	114	19.754	182	96.87	156	15.194	131	38.47	30
Okt. 7.3	12.470	226	51.10	108	52.283	201	41.75	96	19.572	202	98.43	114	15.063	148	38.77	38
17.3	12.244	237	52.18	62	52.082	212	42.71	75	19.370	213	99.57	71	14.915	157	39.15	44
27.3	12.007	238	52.80	15	51.870	211	43.46	49	19.157	214	100.28	25	14.758	156	39.59	46
Nov. 6.3	11.769	231	52.95	33	51.659	200	43.95	21	18.943	208	100.53	22	14.602	148	40.05	48
16.2	11.538	214	52.62	81	51.459	178	44.16	7	18.735	194	100.31	68	14.454	131	40.53	47
26.2	11.324	191	51.81	127	51.281	150	44.09	36	18.541	171	99.63	113	14.323	110	41.00	46
Dez. 6.2	11.133	161	50.54	171	51.131	113	43.73	62	18.370	143	98.50	154	14.213	84	41.46	43
16.1	10.972	126	48.83	210	51.018	74	43.11	88	18.227	111	96.96	191	14.129	54	41.89	40
26.1	10.846	87	46.73	240	50.944	31	42.23	110	18.116	73	95.05	222	14.075	23	42.29	35
36.1	10.759		44.33		50.913		41.13		18.043		92.83		14.052		42.64	
Mittl Ort	9.157		16.67		47.647		55.35		15.889		61.52		11.028		61.46	
sec δ, tg δ	1.322		+0.865		1.286		−0.808		1.275		+0.791		1.021		−0.207	

*) Die jährliche Parallaxe (0.″30) ist bereits berücksichtigt

Mittlere Zeit Greenw.	795) Br. 2777				797) ζ Cygni				800) α Equulei				803) α Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	21h 7m		+77° 47'		21h 9m		+29° 53'		21h 11m		+4° 54'		21h 16m		+62° 14'	
1919	s		"		s		"		s		"		s		"	
Jan. 1.1	3.97	57	72.57	263	28.999	44	50.71	214	46.478	13	50.88	113	37.39	21	49.46	262
11.1	3.40	41	69.94	296	28.955	8	48.57	228	46.465	17	49.75	113	37.18	14	46.84	294
21.1	2.99	23	66.98	319	28.947	29	46.29	233	46.482	49	48.62	109	37.04	7	43.90	314
31.0	2.76	3	63.79	329	28.976	68	43.96	229	46.531	80	47.53	98	36.97	2	40.76	320
Feb. 10.0	2.73	17	60.50	325	29.044	106	41.67	214	46.611	110	46.55	82	36.99	10	37.56	315
20.0	2.90	36	57.25	310	29.150	144	39.53	190	46.721	141	45.73	61	37.09	19	34.41	296
März 1.9	3.26	53	54.15	280	29.294	182	37.63	157	46.862	171	45.12	35	37.28	26	31.45	266
11.9	3.79	70	51.35	241	29.476	217	36.06	118	47.033	199	44.77	4	37.54	33	28.79	225
21.9	4.49	84	48.94	191	29.693	249	34.88	72	47.232	226	44.73	27	37.87	40	26.54	175
31.9	5.33	94	47.03	136	29.942	276	34.16	23	47.458	251	45.00	60	38.27	45	24.79	119
Apr. 10.8	6.27	102	45.67	76	30.218	300	33.93	27	47.709	271	45.60	91	38.72	50	23.60	59
20.8	7.29	106	44.91	12	30.518	317	34.20	77	47.980	288	46.51	122	39.22	52	23.01	4
30.8	8.35	107	44.79	50	30.835	326	34.97	124	48.268	299	47.73	149	39.74	53	23.05	66
Mai 10.8	9.42	104	45.29	111	31.161	329	36.21	168	48.567	303	49.22	171	40.27	53	23.71	125
20.7	10.46	99	46.40	167	31.490	322	37.89	205	48.870	300	50.93	189	40.80	51	24.96	180
30.7	11.45	90	48.07	219	31.812	308	39.94	238	49.170	291	52.82	200	41.31	48	26.76	230
Juni 9.7	12.35	79	50.26	263	32.120	285	42.32	263	49.461	273	54.82	207	41.79	43	29.06	273
19.6	13.14	66	52.89	301	32.405	256	44.95	281	49.734	248	56.89	207	42.22	38	31.79	307
29.6	13.80	51	55.90	330	32.661	219	47.76	292	49.982	219	58.96	202	42.60	31	34.86	336
Juli 9.6	14.31	35	59.20	352	32.880	179	50.68	295	50.201	182	60.98	194	42.91	24	38.22	354
19.6	14.66	18	62.72	365	33.059	132	53.63	293	50.383	141	62.92	179	43.15	15	41.76	365
29.5	14.84	2	66.37	371	33.191	84	56.56	283	50.524	98	64.71	163	43.30	8	45.41	368
Aug. 8.5	14.86	16	70.08	368	33.275	35	59.39	267	50.622	54	66.34	144	43.38	0	49.09	362
18.5	14.70	32	73.76	357	33.310	13	62.06	248	50.676	10	67.78	122	43.38	8	52.71	350
28.4	14.38	47	77.33	340	33.297	57	64.54	223	50.686	32	69.00	100	43.30	16	56.21	328
Sept. 7.4	13.91	62	80.73	314	33.240	98	66.77	193	50.654	70	70.00	78	43.14	23	59.49	302
17.4	13.29	74	83.87	283	33.142	132	68.70	162	50.584	101	70.78	55	42.91	29	62.51	269
27.4	12.55	85	86.70	244	33.010	160	70.32	127	50.483	127	71.33	32	42.62	33	65.20	229
Okt. 7.3	11.70	94	89.14	200	32.850	179	71.59	90	50.356	143	71.65	12	42.29	38	67.49	185
17.3	10.76	100	91.14	152	32.671	190	72.49	50	50.213	153	71.77	10	41.91	41	69.34	135
27.3	9.76	104	92.66	98	32.481	192	72.99	11	50.060	154	71.67	29	41.50	42	70.69	82
Nov. 6.3	8.72	104	93.64	40	32.289	187	73.10	31	49.906	146	71.38	47	41.08	43	71.51	26
16.2	7.68	104	94.04	19	32.102	174	72.79	70	49.760	134	70.91	65	40.65	41	71.77	32
26.2	6.64	98	93.85	78	31.928	154	72.09	110	49.626	114	70.26	81	40.24	39	71.45	88
Dez. 6.2	5.66	91	93.07	137	31.774	130	70.99	146	49.512	91	69.45	94	39.85	36	70.57	145
16.1	4.75	80	91.70	191	31.644	102	69.53	177	49.421	64	68.51	105	39.49	31	69.12	196
26.1	3.95	68	89.79	238	31.542	68	67.76	204	49.357	35	67.46	113	39.18	25	67.16	241
36.1	3.27		87.41		31.474		65.72		49.322		66.33		38.93		64.75	
Mittl. Ort	8.72		53.52		29.279		38.45		46.520		43.96		38.83		31.26	
sec δ, tg δ	4.731		+4.624		1.153		+0.575		1.004		+0.086		2.147		+1.900	

Mittlere Zeit Greenw.	804) ι Pegasi AR.		Dekl.		805) γ Pavonis AR.		Dekl.		806) ζ Capricorni AR.		Dekl.		808) β Aquarii AR.		Dekl.	
	21h 18m		+19° 27′		21h 19m		−65° 43′		21h 22m		−22° 45′		21h 27m		−5° 55′	
1919	s		″		s		″		s		″		s		″	
Jan. 1.1	20.292	34	36.40	173	44.57	12	66.94	252	2.706	17	45.83	32	17.797	21	36.95	56
11.1	20.258	2	34.67	182	44.45	4	64.42	278	2.689	17	45.51	46	17.776	10	37.51	52
21.1	20.256	32	32.85	183	44.41	5	61.64	298	2.706	50	45.05	60	17.786	39	38.03	41
31.0	20.288	65	31.02	177	44.46	12	58.66	310	2.756	83	44.45	75	17.825	69	38.44	30
Feb. 10.0	20.353	99	29.25	162	44.58	21	55.56	314	2.839	115	43.70	90	17.894	99	38.74	14
20.0	20.452	133	27.63	140	44.79	28	52.42	313	2.954	147	42.80	105	17.993	130	38.88	6
März 2.0	20.585	166	26.23	109	45.07	36	49.29	303	3.101	178	41.75	119	18.123	160	38.82	27
11.9	20.751	199	25.14	75	45.43	42	46.26	289	3.279	208	40.56	132	18.283	189	38.55	51
21.9	20.950	229	24.39	34	45.85	48	43.37	268	3.487	237	39.24	144	18.472	217	38.04	75
31.9	21.179	256	24.05	8	46.33	53	40.69	242	3.724	263	37.80	154	18.689	243	37.29	99
Apr. 10.8	21.435	279	24.13	51	46.86	58	38.27	213	3.987	287	36.26	161	18.932	266	36.30	122
20.8	21.714	296	24.64	94	47.44	61	36.14	177	4.274	306	34.65	165	19.198	285	35.08	142
30.8	22.010	308	25.58	133	48.05	63	34.37	138	4.580	319	33.00	164	19.483	298	33.66	158
Mai 10.8	22.318	313	26.91	169	48.68	64	32.99	97	4.899	326	31.36	159	19.781	306	32.08	171
20.7	22.631	310	28.60	199	49.32	63	32.02	54	5.225	327	29.77	149	20.087	307	30.37	177
30.7	22.941	299	30.59	224	49.95	62	31.48	8	5.552	319	28.28	137	20.394	299	28.60	180
Juni 9.7	23.240	281	32.83	242	50.57	58	31.40	36	5.871	304	26.91	119	20.693	285	26.80	177
19.7	23.521	254	35.25	253	51.15	53	31.76	80	6.175	281	25.72	100	20.978	264	25.03	170
29.6	23.775	223	37.78	259	51.68	47	32.56	121	6.456	250	24.72	77	21.242	235	23.33	159
Juli 9.6	23.998	185	40.37	258	52.15	39	33.77	157	6.706	213	23.95	53	21.477	201	21.74	143
19.6	24.183	143	42.95	251	52.54	30	35.34	190	6.919	171	23.42	29	21.678	161	20.31	125
29.5	24.326	98	45.46	239	52.84	21	37.24	215	7.090	124	23.13	5	21.839	118	19.06	104
Aug. 8.5	24.424	53	47.85	222	53.05	11	39.39	233	7.214	76	23.08	17	21.957	73	18.02	84
18.5	24.477	7	50.07	201	53.16	0	41.72	242	7.290	27	23.25	36	22.030	29	17.18	63
28.5	24.484	36	52.08	178	53.16	10	44.14	242	7.317	20	23.61	53	22.059	14	16.55	42
Sept. 7.4	24.448	74	53.86	152	53.06	19	46.56	233	7.297	62	24.14	65	22.045	54	16.13	23
17.4	24.374	108	55.38	122	52.87	28	48.89	213	7.235	100	24.79	72	21.991	87	15.90	5
27.4	24.266	134	56.60	93	52.59	34	51.02	185	7.135	129	25.51	76	21.904	115	15.85	11
Okt. 7.4	24.132	153	57.53	62	52.25	41	52.87	149	7.006	150	26.27	74	21.789	134	15.96	24
17.3	23.979	164	58.15	29	51.84	44	54.36	105	6.856	163	27.01	70	21.655	146	16.20	34
27.3	23.815	166	58.44	2	51.40	45	55.41	57	6.693	166	27.71	62	21.509	149	16.54	44
Nov. 6.3	23.649	162	58.42	35	50.95	45	55.98	6	6.527	160	28.33	50	21.360	144	16.98	51
16.2	23.487	150	58.07	66	50.50	43	56.04	47	6.367	146	28.83	38	21.216	133	17.49	56
26.2	23.337	133	57.41	96	50.07	38	55.57	98	6.221	126	29.21	24	21.083	115	18.05	60
Dez. 6.2	23.204	111	56.45	123	49.69	32	54.59	147	6.095	101	29.45	9	20.968	95	18.65	63
16.2	23.093	85	55.22	147	49.37	26	53.12	191	5.994	71	29.54	6	20.873	69	19.28	63
26.1	23.008	55	53.75	166	49.11	18	51.21	229	5.923	40	29.48	20	20.804	41	19.91	62
36.1	22.953		52.09		48.93		48.92		5.883		29.28		20.763		20.53	
Mittl. Ort	20.399		26.05		45.79		61.55		2.731		46.64		17.758		41.47	
sec δ, tg δ	1.061		+0.353		2.433		−2.218		1.085		−0.420		1.005		−0.104	

Mittlere Zeit Greenw.	809) β Cephei AR.		809) β Cephei Dekl.		810) ν Octantis AR.		810) ν Octantis Dekl.		811) 74 Cygni AR.		811) 74 Cygni Dekl.		815) ε Pegasi AR.		815) ε Pegasi Dekl.	
	$21^h 27^m$		+70° 12′		$21^h 32^m$		−77° 44′		$21^h 33^m$		+40° 2′		$21^h 40^m$		+9° 30′	
1919	s		″		s		″		s		″		s		″	
Jan. 1.1	35.06	35	37.70	251	28.04	39	70.07	287	41.736	93	72.18	225	12.517	40	19.18	126
11.1	34.71	27	35.19	286	27.65	22	67.20	317	41.643	54	69.93	247	12.477	11	17.92	128
21.1	34.44	15	32.33	312	27.43	6	64.03	338	41.589	14	67.46	260	12.466	19	16.64	127
31.0	34.29	4	29.21	325	27.37	11	60.65	351	41.575	31	64.86	263	12.485	48	15.37	119
Feb. 10.0	34.25	7	25.96	324	27.48	28	57.14	354	41.606	76	62.23	255	12.533	80	14.18	104
20.0	34.32	20	22.72	311	27.76	43	53.60	350	41.682	121	59.68	235	12.613	112	13.14	84
März 2.0	34.52	31	19.61	285	28.19	58	50.10	338	41.803	168	57.33	207	12.725	144	12.30	59
11.9	34.83	41	16.76	248	28.77	71	46.72	319	41.971	211	55.26	168	12.869	176	11.71	28
21.9	35.24	51	14.28	201	29.48	84	43.53	292	42.182	252	53.58	123	13.045	207	11.43	4
31.9	35.75	58	12.27	148	30.32	93	40.61	262	42.434	288	52.35	72	13.252	235	11.47	41
Apr. 10.9	36.33	64	10.79	87	31.25	102	37.99	224	42.722	318	51.63	19	13.487	260	11.88	75
20.8	36.97	68	9.92	26	32.27	109	35.75	183	43.040	341	51.44	36	13.747	280	12.63	109
30.8	37.65	70	9.66	37	33.36	113	33.92	138	43.381	356	51.80	90	14.027	297	13.72	140
Mai 10.8	38.35	70	10.03	98	34.49	115	32.54	90	43.737	362	52.70	140	14.324	305	15.12	167
20.7	39.05	68	11.01	156	35.64	114	31.64	40	44.099	359	54.10	186	14.629	306	16.79	191
30.7	39.73	63	12.57	208	36.78	112	31.24	11	44.458	346	55.96	227	14.935	301	18.70	206
Juni 9.7	40.36	57	14.65	255	37.90	105	31.35	60	44.804	324	58.23	261	15.236	288	20.76	218
19.7	40.93	50	17.20	294	38.95	97	31.95	109	45.128	293	60.84	289	15.524	266	22.94	223
29.6	41.43	42	20.14	326	39.92	85	33.04	153	45.421	255	63.73	307	15.790	238	25.17	223
Juli 9.6	41.85	31	23.40	350	40.77	72	34.57	194	45.676	212	66.80	320	16.028	204	27.40	218
19.6	42.16	21	26.90	365	41.49	56	36.51	228	45.888	162	70.00	324	16.232	166	29.58	206
29.6	42.37	11	30.55	373	42.05	38	38.79	254	46.050	110	73.24	321	16.398	123	31.64	192
Aug. 8.5	42.48	1	34.28	372	42.43	20	41.33	273	46.160	58	76.45	312	16.521	79	33.56	174
18.5	42.47	11	38.00	363	42.63	1	44.06	282	46.218	4	79.57	296	16.600	35	35.30	153
28.5	42.36	21	41.63	347	42.64	19	46.88	280	46.222	45	82.53	274	16.635	7	36.83	131
Sept. 7.4	42.15	30	45.10	324	42.45	37	49.68	268	46.177	92	85.27	248	16.628	46	38.14	107
17.4	41.85	40	48.34	294	42.08	54	52.36	245	46.085	133	87.75	216	16.582	81	39.21	82
27.4	41.45	46	51.28	256	41.54	69	54.81	212	45.952	166	89.91	180	16.501	108	40.03	57
Okt. 7.4	40.99	52	53.84	214	40.85	80	56.93	170	45.786	191	91.71	140	16.393	129	40.60	33
17.3	40.47	57	55.98	166	40.05	90	58.63	121	45.595	209	93.11	99	16.264	143	40.93	9
27.3	39.90	59	57.64	114	39.15	94	59.84	66	45.386	219	94.10	53	16.121	148	41.02	14
Nov. 6.3	39.31	61	58.78	56	38.21	94	60.50	6	45.167	218	94.63	6	15.973	147	40.88	36
16.3	38.70	61	59.34	3	37.27	92	60.56	53	44.949	211	94.69	40	15.826	138	40.52	58
26.2	38.09	58	59.31	61	36.35	86	60.03	112	44.738	197	94.29	88	15.688	125	39.94	78
Dez. 6.2	37.51	54	58.70	121	35.49	75	58.91	168	44.541	177	93.41	132	15.563	106	39.16	96
16.2	36.97	49	57.49	176	34.74	64	57.23	218	44.364	149	92.09	173	15.457	83	38.20	111
26.1	36.48	41	55.73	226	34.10	49	55.05	261	44.215	118	90.36	208	15.374	59	37.09	122
36.1	36.07		53.47		33.61		52.44		44.097		88.28		15.315		35.87	
Mittl. Ort	37.27		17.81		31.21		63.37		42.050		56.72		12.455		10.73	
sec δ, tg δ	2.953		+2.778		4.713		−4.606		1.306		+0.841		1.014		+0.167	

Mittlere Zeit Greenw.	819) δ Capricorni AR.		819) δ Capricorni Dekl.		821) π² Cygni AR.		821) π² Cygni Dekl.	
	21ʰ 42ᵐ		−16° 29′		21ʰ 43ᵐ		+48° 55′	
1919	s		″		s		″	
Jan. 1.1	34.407	32	41.91	4	47.494	140	80.94	230
11.1	34.375	2	41.95	8	47.354	97	78.64	260
21.1	34.373	27	41.87	23	47.257	48	76.04	279
31.1	34.400	58	41.64	38	47.209	3	73.25	287
Feb. 10.0	34.458	89	41.26	54	47.212	58	70.38	284
20.0	34.547	120	40.72	72	47.270	114	67.54	268
März 2.0	34.667	152	40.00	89	47.384	170	64.86	242
11.9	34.819	182	39.11	108	47.554	222	62.44	206
21.9	35.001	213	38.03	126	47.776	272	60.38	160
31.9	35.214	241	36.77	141	48.048	317	58.78	109
Apr. 10.9	35.455	266	35.36	155	48.365	353	57.69	54
20.8	35.721	288	33.81	164	48.718	382	57.15	4
30.8	36.009	305	32.17	171	49.100	400	57.19	62
Mai 10.8	36.314	315	30.46	173	49.500	407	57.81	117
20.8	36.629	319	28.73	169	49.907	404	58.98	169
30.7	36.948	315	27.04	162	50.311	390	60.67	215
Juni 9.7	37.263	302	25.42	151	50.701	365	62.82	255
19.7	37.565	284	23.91	134	51.066	332	65.37	289
29.6	37.849	256	22.57	115	51.398	289	68.26	314
Juli 9.6	38.105	221	21.42	93	51.687	239	71.40	332
19.6	38.326	183	20.49	70	51.926	184	74.72	343
29.6	38.509	139	19.79	47	52.110	126	78.15	345
Aug. 8.5	38.648	94	19.32	22	52.236	66	81.60	340
18.5	38.742	47	19.10	1	52.302	7	85.00	328
28.5	38.789	1	19.09	19	52.309	50	88.28	309
Sept. 7.5	38.790	40	19.28	35	52.259	103	91.37	285
17.4	38.750	77	19.63	49	52.156	151	94.22	254
27.4	38.673	108	20.12	59	52.005	191	96.76	218
Okt. 7.4	38.565	131	20.71	64	51.814	223	98.94	178
17.3	38.434	145	21.35	65	51.591	246	100.72	133
27.3	38.289	152	22.00	64	51.345	260	102.05	85
Nov. 6.3	38.137	149	22.64	60	51.085	265	102.90	35
16.3	37.988	141	23.24	54	50.820	261	103.25	18
26.2	37.847	124	23.78	45	50.559	250	103.07	69
Dez. 6.2	37.723	104	24.23	36	50.309	229	102.38	121
16.2	37.619	80	24.59	26	50.080	202	101.17	168
26.2	37.539	53	24.85	14	49.878	168	99.49	209
36.1	37.486		24.99		49.710		97.40	
Mittl. Ort	34.330		43.80		47.957		63.23	
sec δ, tg δ	1.043		−0.296		1.522		+1.148	

Mittlere Zeit Greenw.	822) γ Gruis AR.		822) γ Gruis Dekl.		823) 16 Pegasi AR.		823) 16 Pegasi Dekl.	
	21ʰ 49ᵐ		−37° 44′		21ʰ 49ᵐ		+25° 32′	
1919	s		″		s		″	
Jan. 1.1	1.629	57	50.29	103	22.531	68	49.29	177
11.1	1.572	21	49.26	127	22.463	38	47.52	193
21.1	1.551	17	47.99	149	22.425	6	45.59	201
31.1	1.568	55	46.50	168	22.419	28	43.58	199
Feb. 10.0	1.623	93	44.82	185	22.447	64	41.59	190
20.0	1.716	132	42.97	198	22.511	101	39.69	171
März 2.0	1.848	168	40.99	208	22.612	138	37.98	145
11.9	2.016	206	38.91	214	22.750	176	36.53	111
21.9	2.222	242	36.77	216	22.926	210	35.42	71
31.9	2.464	275	34.61	216	23.136	244	34.71	27
Apr. 10.9	2.739	306	32.45	210	23.380	273	34.44	17
20.8	3.045	331	30.35	201	23.653	296	34.61	63
30.8	3.376	352	28.34	186	23.949	313	35.24	108
Mai 10.8	3.728	365	26.48	168	24.262	323	36.32	148
20.8	4.093	370	24.80	144	24.585	325	37.80	185
30.7	4.463	368	23.36	117	24.910	318	39.65	216
Juni 9.7	4.831	355	22.19	89	25.228	304	41.81	241
19.7	5.186	333	21.30	55	25.532	281	44.22	260
29.6	5.519	303	20.75	23	25.813	251	46.82	272
Juli 9.6	5.822	265	20.52	10	26.064	214	49.54	276
19.6	6.087	220	20.62	43	26.278	174	52.30	276
29.6	6.307	168	21.05	72	26.452	129	55.06	268
Aug. 8.5	6.475	115	21.77	98	26.581	83	57.74	255
18.5	6.590	58	22.75	119	26.664	36	60.29	238
28.5	6.648	3	23.94	135	26.700	8	62.67	216
Sept. 7.5	6.651	48	25.29	145	26.692	50	64.83	191
17.4	6.603	94	26.74	147	26.642	87	66.74	163
27.4	6.509	135	28.21	143	26.555	117	68.37	132
Okt. 7.4	6.374	165	29.64	131	26.438	141	69.69	99
17.3	6.209	186	30.95	115	26.297	157	70.68	64
27.3	6.023	196	32.10	93	26.140	166	71.32	29
Nov. 6.3	5.827	196	33.03	65	25.974	167	71.61	6
16.3	5.631	187	33.68	37	25.807	161	71.55	44
26.2	5.444	170	34.05	6	25.646	151	71.11	78
Dez. 6.2	5.274	145	34.11	25	25.495	134	70.33	111
16.2	5.129	116	33.86	55	25.361	112	69.22	142
26.2	5.013	82	33.31	83	25.249	88	67.80	167
36.1	4.931		32.48		25.161		66.13	
Mittl. Ort	1.703		47.37		22.529		36.55	
sec δ, tg δ	1.265		−0.774		1.108		+0.478	

Mittlere Zeit Greenw.	827) α Aquarii AR.		Dekl.		828) ι Aquarii AR.		Dekl.		830) 20 Cephei AR.		Dekl.		829) α Gruis AR.		Dekl.	
1919	22h 1m		−0° 42′		22h 2m		−14° 15′		22h 2m		+62° 23′		22h 3m		−47° 20′	
Jan. 1.1	37.635	47	44.18	77	4.032	48	45.22	16	31.88	28	45.42	218	7.901	98	79.77	141
11.1	37.588	23	44.95	74	3.984	21	45.38	3	31.60	21	43.24	257	7.803	55	78.36	172
21.1	37.565	4	45.69	66	3.963	8	45.41	11	31.39	15	40.67	288	7.748	12	76.64	199
31.1	37.569	33	46.35	56	3.971	36	45.30	26	31.24	7	37.79	305	7.736	33	74.65	221
Feb. 10.0	37.602	62	46.91	41	4.007	66	45.04	44	31.17	1	34.74	312	7.769	78	72.44	238
20.0	37.664	93	47.32	21	4.073	99	44.60	62	31.18	9	31.62	304	7.847	124	70.06	251
März 2.0	37.757	125	47.53	2	4.172	129	43.98	82	31.27	18	28.58	286	7.971	168	67.55	258
12.0	37.882	157	47.51	26	4.301	162	43.16	102	31.45	25	25.72	254	8.139	213	64.97	262
21.9	38.039	188	47.25	54	4.463	193	42.14	121	31.70	33	23.18	214	8.352	256	62.35	258
31.9	38.227	218	46.71	82	4.656	224	40.93	139	32.03	40	21.04	164	8.608	295	59.77	252
Apr. 10.9	38.445	246	45.89	109	4.880	252	39.54	155	32.43	46	19.40	109	8.903	333	57.25	240
20.8	38.691	270	44.80	133	5.132	276	37.99	168	32.89	50	18.31	51	9.236	364	54.85	222
30.8	38.961	289	43.47	156	5.408	295	36.31	177	33.39	52	17.80	10	9.600	390	52.63	200
Mai 10.8	39.250	301	41.91	173	5.703	309	34.54	181	33.91	55	17.90	71	9.990	407	50.63	174
20.8	39.551	307	40.18	186	6.012	316	32.73	180	34.46	54	18.61	127	10.397	417	48.89	141
30.7	39.858	306	38.32	195	6.328	315	30.93	176	35.00	52	19.88	181	10.814	416	47.48	108
Juni 9.7	40.164	296	36.37	197	6.643	306	29.17	166	35.52	49	21.69	230	11.230	405	46.40	70
19.7	40.460	279	34.40	194	6.949	290	27.51	151	36.01	45	23.99	271	11.635	383	45.70	32
29.7	40.739	255	32.46	187	7.239	264	26.00	133	36.46	39	26.70	306	12.018	352	45.38	9
Juli 9.6	40.994	223	30.59	175	7.503	234	24.67	113	36.85	33	29.76	333	12.370	311	45.47	46
19.6	41.217	187	28.84	159	7.737	197	23.54	89	37.18	25	33.09	353	12.681	261	45.93	84
29.6	41.404	147	27.25	141	7.934	155	22.65	64	37.43	18	36.62	364	12.942	205	46.77	117
Aug. 8.5	41.551	104	25.84	119	8.089	110	22.01	40	37.61	10	40.26	367	13.147	143	47.94	145
18.5	41.655	60	24.65	98	8.199	65	21.61	17	37.71	2	43.93	363	13.290	80	49.39	168
28.5	41.715	17	23.67	75	8.264	20	21.44	4	37.73	6	47.56	351	13.370	17	51.07	183
Sept. 7.5	41.732	22	22.92	53	8.284	22	21.48	25	37.67	13	51.07	332	13.387	45	52.90	192
17.4	41.710	59	22.39	32	8.262	60	21.73	40	37.54	20	54.39	306	13.342	102	54.82	192
27.4	41.651	89	22.07	12	8.202	91	22.13	52	37.34	26	57.45	274	13.240	150	56.74	183
Okt. 7.4	41.562	111	21.95	5	8.111	117	22.65	60	37.08	31	60.19	235	13.090	189	58.57	166
17.4	41.451	128	22.00	22	7.994	134	23.25	66	36.77	35	62.54	191	12.901	217	60.23	142
27.3	41.323	137	22.22	35	7.860	142	23.91	66	36.42	38	64.45	141	12.684	235	61.65	113
Nov. 6.3	41.186	138	22.57	48	7.718	144	24.57	65	36.04	40	65.86	88	12.449	240	62.78	77
16.3	41.048	133	23.05	58	7.574	139	25.22	60	35.64	40	66.74	31	12.209	234	63.55	39
26.2	40.915	122	23.63	67	7.435	128	25.82	54	35.24	40	67.05	26	11.975	218	63.94	1
Dez. 6.2	40.793	107	24.30	73	7.307	110	26.36	46	34.84	38	66.79	85	11.757	193	63.93	42
16.2	40.686	88	25.03	77	7.197	90	26.82	37	34.46	35	65.94	140	11.564	162	63.51	81
26.2	40.598	66	25.80	80	7.107	66	27.19	26	34.11	31	64.54	192	11.402	125	62.70	117
36.1	40.532		26.60		7.041		27.45		33.80		62.62		11.277		61.53	
Mittl. Ort	37.454		50.07		3.868		47.43		32.73		24.44		8.089		74.58	
sec δ, tg δ	1.000		−0.012		1.032		−0.254		2.158		+1.912		1.476		−1.086	

Mittlere Zeit Greenw.	834) ϑ Pegasi				835) π Pegasi				836) ζ Cephei				837) 24 Cephei			
	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
1919	22h 6m		+5° 47′		22h 6m		+32° 46′		22h 8m		+57° 47′		22h 8m		+71° 56′	
	s		″		s		″		s		″		s		″	
Jan. 1.1	7.038	54	63.47	102	23.327	96	64.05	185	1.961	228	86.19	213	13.55	48	53.75	206
11.1	6.984	30	62.45	104	23.231	67	62.20	207	1.733	180	84.06	251	13.07	39	51.69	251
21.1	6.954	3	61.41	101	23.164	34	60.13	221	1.553	123	81.55	279	12.68	28	49.18	285
31.1	6.951	26	60.40	93	23.130	2	57.92	226	1.430	59	78.76	297	12.40	17	46.33	310
Feb. 10.0	6.977	56	59.47	79	23.132	41	55.66	221	1.371	8	75.79	302	12.23	4	43.23	320
20.0	7.033	87	58.68	60	23.173	82	53.45	206	1.379	80	72.77	295	12.19	8	40.03	319
März 2.0	7.120	119	58.08	37	23.255	123	51.39	182	1.459	152	69.82	275	12.27	22	36.84	304
12.0	7.239	153	57.71	9	23.378	166	49.57	149	1.611	222	67.07	245	12.49	34	33.80	277
21.9	7.392	185	57.62	21	23.544	206	48.08	110	1.833	289	64.62	205	12.83	45	31.03	239
31.9	7.577	216	57.83	53	23.750	243	46.98	66	2.122	348	62.57	157	13.28	56	28.64	192
Apr. 10.9	7.793	245	58.36	84	23.993	277	46.32	18	2.470	400	61.00	103	13.84	64	26.72	138
20.8	8.038	269	59.20	115	24.270	305	46.14	31	2.870	439	59.97	45	14.48	70	25.34	80
30.8	8.307	289	60.35	143	24.575	326	46.45	79	3.309	467	59.52	15	15.18	75	24.54	19
Mai 10.8	8.596	302	61.78	167	24.901	339	47.24	126	3.776	483	59.67	73	15.93	76	24.35	43
20.8	8.898	308	63.45	187	25.240	343	48.50	168	4.259	484	60.40	130	16.69	77	24.78	102
30.7	9.206	307	65.32	200	25.583	339	50.18	206	4.743	471	61.70	182	17.46	73	25.80	158
Juni 9.7	9.513	297	67.32	210	25.922	325	52.24	238	5.214	447	63.52	228	18.19	69	27.38	210
19.7	9.810	281	69.42	213	26.247	303	54.62	263	5.661	411	65.80	269	18.88	63	29.48	255
29.7	10.091	256	71.55	210	26.550	273	57.25	281	6.072	363	68.49	303	19.51	54	32.03	295
Juli 9.6	10.347	225	73.65	204	26.823	237	60.06	293	6.435	307	71.52	328	20.05	46	34.98	326
19.6	10.572	189	75.69	191	27.060	195	62.99	297	6.742	245	74.80	347	20.51	35	38.24	350
29.6	10.761	150	77.60	175	27.255	149	65.96	296	6.987	178	78.27	358	20.86	24	41.74	367
Aug. 8.5	10.911	106	79.35	158	27.404	101	68.92	287	7.165	108	81.85	360	21.10	13	45.41	374
18.5	11.017	62	80.93	136	27.505	52	71.79	273	7.273	37	85.45	354	21.23	0	49.15	375
28.5	11.079	21	82.29	113	27.557	5	74.52	254	7.310	31	88.99	343	21.23	10	52.90	367
Sept. 7.5	11.100	20	83.42	91	27.562	40	77.06	231	7.279	96	92.42	324	21.13	20	56.57	352
17.4	11.080	55	84.33	67	27.522	79	79.37	203	7.183	156	95.66	297	20.93	31	60.09	329
27.4	11.025	86	85.00	44	27.443	113	81.40	172	7.027	209	98.63	265	20.62	40	63.38	300
Okt. 7.4	10.939	109	85.44	23	27.330	140	83.12	136	6.818	253	101.28	227	20.22	47	66.38	263
17.4	10.830	126	85.67	1	27.190	161	84.48	101	6.565	288	103.55	184	19.75	55	69.01	221
27.3	10.704	135	85.68	18	27.029	174	85.49	61	6.277	315	105.39	136	19.20	59	71.22	171
Nov. 6.3	10.569	138	85.50	36	26.855	179	86.10	21	5.962	330	106.75	83	18.61	62	72.93	118
16.3	10.431	134	85.14	54	26.676	179	86.31	21	5.632	336	107.58	29	17.99	65	74.11	59
26.2	10.297	124	84.60	69	26.497	170	86.10	62	5.296	332	107.87	27	17.34	64	74.70	0
Dez. 6.2	10.173	110	83.91	83	26.327	158	85.48	101	4.964	317	107.60	84	16.70	63	74.70	61
16.2	10.063	93	83.08	93	26.169	139	84.47	138	4.647	291	106.76	138	16.07	59	74.09	121
26.2	9.970	71	82.15	101	26.030	116	83.09	171	4.356	258	105.38	187	15.48	52	72.88	176
36.1	9.899		81.14		25.914		81.38		4.098		103.51		14.96		71.12	
Mittl. Ort	6.841		55.74		23.292		48.98		2.495		65.68		15.22		31.21	
sec δ, tg δ	1.005		+0.102		1.189		+0.644		1.877		+1.588		3.226		+3.067	

Mittlere Zeit Greenw.	840) ϑ Aquarii AR.		840) ϑ Aquarii Dekl.		841) α Tucanae AR.		841) α Tucanae Dekl.		842) γ Aquarii AR.		842) γ Aquarii Dekl.		844) 3 Lacertae AR.		844) 3 Lacertae Dekl.	
1919	22h 12m		−8° 10′		22h 12m		−60° 39′		22h 17m		−1° 47′		22h 20m		+51° 49′	
Jan. 1.1	33.873	54	69.86	44	57.29	18	57.89	193	28.645	58	40.15	71	22.119	191	41.93	198
11.1	33.819	30	70.30	35	57.11	13	55.96	230	28.587	35	40.86	66	21.928	152	39.95	235
21.1	33.789	3	70.65	24	56.98	7	53.66	261	28.552	10	41.52	58	21.776	106	37.60	263
31.1	33.786	24	70.89	9	56.91	0	51.05	284	28.542	18	42.10	47	21.670	56	34.97	280
Feb. 10.0	33.810	54	70.98	7	56.91	7	48.21	302	28.560	47	42.57	32	21.614	1	32.17	285
20.0	33.864	85	70.91	26	56.98	13	45.19	312	28.607	77	42.89	13	21.615	60	29.32	279
März 2.0	33.949	116	70.65	47	57.11	19	42.07	316	28.684	109	43.02	10	21.675	122	26.53	262
12.0	34.065	148	70.18	70	57.30	25	38.91	313	28.793	142	42.92	34	21.797	182	23.91	232
21.9	34.213	181	69.48	93	57.55	32	35.78	303	28.935	175	42.58	60	21.979	241	21.59	194
31.9	34.394	212	68.55	116	57.87	37	32.75	289	29.110	207	41.98	87	22.220	295	19.65	148
Apr. 10.9	34.606	241	67.39	137	58.24	42	29.86	267	29.317	236	41.11	114	22.515	342	18.17	96
20.8	34.847	267	66.02	155	58.66	46	27.19	240	29.553	263	39.97	137	22.857	381	17.21	41
30.8	35.114	287	64.47	170	59.12	50	24.79	208	29.816	283	38.60	158	23.238	410	16.80	16
Mai 10.8	35.401	303	62.77	181	59.62	52	22.71	172	30.099	299	37.02	175	23.648	427	16.96	72
20.8	35.704	310	60.96	186	60.14	54	20.99	131	30.398	308	35.27	188	24.075	433	17.68	127
30.7	36.014	311	59.10	188	60.68	54	19.68	87	30.706	308	33.39	195	24.508	427	18.95	176
Juni 9.7	36.325	303	57.22	183	61.22	53	18.81	42	31.014	302	31.44	197	24.935	409	20.71	222
19.7	36.628	289	55.39	175	61.75	50	18.39	5	31.316	287	29.47	193	25.344	382	22.93	260
29.7	36.917	265	53.64	161	62.25	46	18.44	51	31.603	264	27.54	186	25.726	343	25.53	292
Juli 9.6	37.182	236	52.03	144	62.71	41	18.95	95	31.867	236	25.68	173	26.069	297	28.45	318
19.6	37.418	200	50.59	123	63.12	35	19.90	137	32.103	200	23.95	156	26.366	244	31.63	334
29.6	37.618	161	49.36	102	63.47	27	21.27	172	32.303	162	22.39	137	26.610	186	34.97	344
Aug. 8.5	37.779	117	48.34	78	63.74	19	22.99	203	32.465	119	21.02	116	26.796	126	38.41	346
18.5	37.896	73	47.56	54	63.93	11	25.02	225	32.584	76	19.86	93	26.922	64	41.87	341
28.5	37.969	30	47.02	32	64.04	2	27.27	239	32.660	33	18.93	70	26.986	3	45.28	329
Sept. 7.5	37.999	12	46.70	10	64.06	6	29.66	244	32.693	7	18.23	48	26.989	54	48.57	310
17.4	37.987	48	46.60	8	64.00	14	32.10	239	32.686	44	17.75	26	26.935	107	51.67	285
27.4	37.939	81	46.68	25	63.86	22	34.49	224	32.642	75	17.49	7	26.828	153	54.52	255
Okt. 7.4	37.858	105	46.93	38	63.64	27	36.73	200	32.567	101	17.42	11	26.675	194	57.07	218
17.4	37.753	123	47.31	49	63.37	31	38.73	167	32.466	118	17.53	25	26.481	225	59.25	177
27.3	37.630	134	47.80	55	63.06	35	40.40	127	32.348	129	17.78	39	26.256	250	61.02	131
Nov. 6.3	37.496	137	48.35	59	62.71	36	41.67	81	32.219	134	18.17	50	26.006	264	62.33	82
16.3	37.359	134	48.94	62	62.35	36	42.48	32	32.085	131	18.67	59	25.742	271	63.15	30
26.2	37.225	124	49.56	62	61.99	34	42.80	20	31.954	123	19.26	65	25.471	270	63.45	23
Dez. 6.2	37.101	111	50.18	61	61.65	32	42.60	70	31.831	111	19.91	71	25.201	259	63.22	76
16.2	36.990	92	50.79	56	61.33	27	41.90	120	31.720	95	20.62	73	24.942	241	62.46	128
26.2	36.898	72	51.35	51	61.06	22	40.70	165	31.625	74	21.35	74	24.701	213	61.18	174
36.1	36.826		51.86		60.84		39.05		31.551		22.09		24.488		59.44	
Mittl. Ort	33.647		73.63		57.89		50.34		28.388		45.73		22.305		22.03	
sec δ, tg δ	1.010		−0.144		2.041		−1.779		1.000		−0.031		1.618		+1.272	

Mittlere Zeit Greenw.	848) 7 Lacertae				850) η Aquarii				852) 10 Lacertae				855) ζ Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	22h 27m		+49° 51′		22h 31m		−0° 31′		22h 35m		+38° 37′		22h 37m		+10° 24′	
Jan. 1.2	57.023	184	76.15	189	12.002	68	61.71	75	37.637	134	59.24	172	25.654	78	38.42	109
11.1	56.839	147	74.26	226	11.934	46	62.46	70	37.503	107	57.52	202	25.576	57	37.33	115
21.1	56.692	107	72.00	254	11.888	22	63.16	64	37.396	76	55.50	223	25.519	34	36.18	116
31.1	56.585	59	69.46	271	11.866	4	63.80	52	37.320	39	53.27	235	25.485	7	35.02	112
Feb. 10.1	56.526	6	66.75	277	11.870	33	64.32	38	37.281	1	50.92	238	25.478	23	33.90	101
20.0	56.520	50	63.98	272	11.903	63	64.70	20	37.282	46	48.54	229	25.501	53	32.89	85
März 2.0	56.570	109	61.26	256	11.966	95	64.90	3	37.328	91	46.25	212	25.554	88	32.04	62
12.0	56.679	168	58.70	227	12.061	128	64.87	27	37.419	140	44.13	184	25.642	123	31.42	37
21.9	56.847	224	56.43	191	12.189	163	64.60	54	37.559	186	42.29	149	25.765	158	31.05	6
31.9	57.071	277	54.52	146	12.352	195	64.06	81	37.745	231	40.80	107	25.923	193	30.99	26
Apr. 10.9	57.348	325	53.06	96	12.547	227	63.25	108	37.976	272	39.73	60	26.116	226	31.25	60
20.9	57.673	363	52.10	42	12.774	255	62.17	134	38.248	307	39.13	10	26.342	255	31.85	94
30.8	58.036	394	51.68	15	13.029	278	60.83	155	38.555	334	39.03	40	26.597	280	32.79	125
Mai 10.8	58.430	412	51.83	69	13.307	296	59.28	174	38.889	354	39.43	90	26.877	298	34.04	154
20.8	58.842	421	52.52	123	13.603	306	57.54	187	39.243	364	40.33	137	27.175	309	35.58	178
30.8	59.263	417	53.75	172	13.909	310	55.67	197	39.607	365	41.70	180	27.484	312	37.36	198
Juni 9.7	59.680	403	55.47	217	14.219	304	53.70	200	39.972	355	43.50	217	27.796	308	39.34	212
19.7	60.083	377	57.64	255	14.523	292	51.70	198	40.327	336	45.67	249	28.104	295	41.46	220
29.7	60.460	342	60.19	286	14.815	272	49.72	191	40.663	309	48.16	275	28.399	274	43.66	223
Juli 9.6	60.802	300	63.05	312	15.087	244	47.81	180	40.972	274	50.91	293	28.673	247	45.89	220
19.6	61.102	249	66.17	329	15.331	210	46.01	165	41.246	234	53.84	305	28.920	214	48.09	213
29.6	61.351	194	69.46	339	15.541	173	44.36	145	41.480	187	56.89	309	29.134	176	50.22	200
Aug. 8.6	61.545	137	72.85	341	15.714	132	42.91	125	41.667	138	59.98	307	29.310	135	52.22	184
18.5	61.682	77	76.26	336	15.846	89	41.66	101	41.805	88	63.05	299	29.445	92	54.06	165
28.5	61.759	19	79.62	325	15.935	46	40.65	79	41.893	39	66.04	284	29.537	51	55.71	143
Sept. 7.5	61.778	36	82.87	307	15.981	6	39.86	56	41.932	9	68.88	265	29.588	9	57.14	120
17.5	61.742	88	85.94	283	15.987	32	39.30	33	41.923	53	71.53	240	29.597	27	58.34	96
27.4	61.654	134	88.77	253	15.955	63	38.97	13	41.870	92	73.93	212	29.570	60	59.30	72
Okt. 7.4	61.520	173	91.30	217	15.892	90	38.84	5	41.778	125	76.05	179	29.510	87	60.02	48
17.4	61.347	204	93.47	178	15.802	109	38.89	22	41.653	151	77.84	142	29.423	107	60.50	24
27.3	61.143	228	95.25	133	15.693	123	39.11	36	41.502	170	79.26	102	29.316	122	60.74	2
Nov. 6.3	60.915	245	96.58	86	15.570	129	39.47	48	41.332	183	80.28	60	29.194	129	60.76	21
16.3	60.670	252	97.44	34	15.441	129	39.95	58	41.149	189	80.88	16	29.065	131	60.55	41
26.3	60.418	252	97.78	17	15.312	123	40.53	65	40.960	189	81.04	29	28.934	127	60.14	61
Dez. 6.2	60.166	243	97.61	69	15.189	114	41.18	72	40.771	182	80.75	73	28.807	120	59.53	78
16.2	59.923	228	96.92	119	15.075	99	41.90	76	40.589	169	80.02	114	28.687	108	58.75	94
26.2	59.695	205	95.73	166	14.976	83	42.66	76	40.420	151	78.88	154	28.579	91	57.81	105
36.2	59.490		94.07		14.893		43.42		40.269		77.34		28.488		56.76	
Mittl. Ort	57.080		56.37		11.677		67.63		37.446		41.88		25.299		29.15	
sec δ, tg δ	1.551		+1.186		1.000		−0.009		1.280		+0.799		1.017		+0.184	

Mittlere Zeit Greenw.	856) β Gruis				857) η Pegasi				859) λ Pegasi				860) ε Gruis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	22h 37m		−47° 18′		22h 39m		+29° 47′		22h 42m		+23° 8′		22h 43m		−51° 44′	
1919	s		″		s		″		s		″		s		″	
Jan. 1.2	50.130	137	38.08	118	12.475	110	64.82	156	38.019	97	33.62	141	40.008	166	43.18	131
11.1	49.993	101	36.90	155	12.365	86	63.26	179	37.922	76	32.21	158	39.842	127	41.87	171
21.1	49.892	63	35.35	187	12.279	59	61.47	194	37.846	51	30.63	168	39.715	84	40.16	206
31.1	49.829	20	33.48	215	12.220	28	59.53	201	37.795	23	28.95	172	39.631	39	38.10	235
Feb. 10.1	49.809	22	31.33	238	12.192	7	57.52	200	37.772	9	27.23	167	39.592	9	35.75	259
20.0	49.831	68	28.95	256	12.199	45	55.52	190	37.781	44	25.56	156	39.601	58	33.16	277
März 2.0	49.899	113	26.39	269	12.244	86	53.62	170	37.825	82	24.00	135	39.659	109	30.39	290
12.0	50.012	160	23.70	277	12.330	128	51.92	143	37.907	121	22.65	108	39.768	160	27.49	297
21.9	50.172	206	20.93	280	12.458	170	50.49	108	38.028	160	21.57	76	39.928	212	24.52	297
31.9	50.378	251	18.13	276	12.628	210	49.41	69	38.188	199	20.81	38	40.140	260	21.55	292
Apr. 10.9	50.629	293	15.37	268	12.838	248	48.72	26	38.387	234	20.43	2	40.400	306	18.63	282
20.9	50.922	331	12.69	254	13.086	280	48.46	20	38.621	266	20.45	43	40.706	350	15.81	264
30.8	51.253	364	10.15	234	13.366	307	48.66	65	38.887	293	20.88	84	41.056	385	13.17	241
Mai 10.8	51.617	390	7.81	208	13.673	327	49.31	109	39.180	311	21.72	123	41.441	414	10.76	213
20.8	52.007	407	5.73	179	14.000	337	50.40	150	39.491	324	22.95	159	41.855	433	8.63	180
30.8	52.414	414	3.94	145	14.337	339	51.90	186	39.815	327	24.54	190	42.288	443	6.83	142
Juni 9.7	52.828	411	2.49	106	14.676	333	53.76	217	40.142	321	26.44	216	42.731	442	5.41	102
19.7	53.239	398	1.43	66	15.009	316	55.93	243	40.463	308	28.60	236	43.173	429	4.39	58
29.7	53.637	373	0.77	24	15.325	293	58.36	262	40.771	286	30.96	250	43.602	403	3.81	13
Juli 9.6	54.010	340	0.53	18	15.618	263	60.98	274	41.057	258	33.46	257	44.005	369	3.68	32
19.6	54.350	296	0.71	60	15.881	225	63.72	281	41.315	222	36.03	259	44.374	323	4.00	74
29.6	54.646	244	1.31	97	16.106	183	66.53	280	41.537	183	38.62	255	44.697	268	4.74	116
Aug. 8.6	54.890	187	2.28	133	16.289	139	69.33	274	41.720	141	41.17	245	44.965	207	5.90	150
18.5	55.077	126	3.61	161	16.428	92	72.07	262	41.861	96	43.62	231	45.172	141	7.40	181
28.5	55.203	63	5.22	184	16.520	46	74.69	246	41.957	53	45.93	213	45.313	73	9.21	204
Sept. 7.5	55.266	1	7.06	199	16.566	3	77.15	225	42.010	10	48.06	191	45.386	5	11.25	218
17.5	55.267	57	9.05	205	16.569	38	79.40	200	42.020	28	49.97	167	45.391	60	13.43	224
27.4	55.210	110	11.10	203	16.531	73	81.40	171	41.992	63	51.64	140	45.331	118	15.67	221
Okt. 7.4	55.100	155	13.13	192	16.458	103	83.11	141	41.929	91	53.04	111	45.213	168	17.88	208
17.4	54.945	191	15.05	173	16.355	127	84.52	108	41.838	114	54.15	81	45.045	210	19.96	186
27.3	54.754	215	16.78	146	16.228	144	85.60	73	41.724	130	54.96	50	44.835	239	21.82	156
Nov. 6.3	54.539	230	18.24	113	16.084	155	86.33	36	41.594	140	55.46	18	44.596	257	23.38	120
16.3	54.309	232	19.37	75	15.929	160	86.69	1	41.454	145	55.64	14	44.339	263	24.58	79
26.3	54.077	227	20.12	34	15.769	159	86.68	39	41.309	144	55.50	46	44.076	258	25.37	34
Dez. 6.2	53.850	211	20.46	8	15.610	152	86.29	76	41.165	137	55.04	76	43.818	244	25.71	13
16.2	53.639	189	20.38	51	15.458	141	85.53	111	41.028	126	54.28	105	43.574	220	25.58	59
26.2	53.450	160	19.87	92	15.317	125	84.42	141	40.902	112	53.23	129	43.354	190	24.99	103
36.2	53.290		18.95		15.192		83.01		40.790		51.94		43.164		23.96	
Mittl. Ort	50.149		31.60		12.180		49.75		37.666		20.42		40.098		35.67	
sec δ, tg δ	1.475		−1.084		1.152		+0.573		1.087		+0.427		1.615		−1.268	

Mittlere Zeit Greenw.	863) ι Cephei				864) λ Aquarii				865) ρ Indi				866) δ Aquarii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	$22^h\,46^m$		+65° 46′		$22^h\,48^m$		−8° 0′		$22^h\,49^m$		−70° 29′		$22^h\,50^m$		−16° 14′	
Jan. 1.2	47.19	38	50.23	167	23.781	77	36.02	46	1.52	40	94.68	197	21.563	82	65.90	15
11.1	46.81	32	48.56	215	23.704	58	36.48	35	1.12	33	92.71	242	21.481	62	66.05	1
21.1	46.49	26	46.41	254	23.646	36	36.83	23	0.79	24	90.29	281	21.419	38	66.04	20
31.1	46.23	19	43.87	285	23.610	10	37.06	8	0.55	15	87.48	312	21.381	13	65.84	39
Feb. 10.1	46.04	10	41.02	303	23.600	16	37.14	9	0.40	6	84.36	335	21.368	15	65.45	59
20.0	45.94	0	37.99	308	23.616	46	37.05	28	0.34	4	81.01	350	21.383	45	64.86	80
März 2.0	45.94	9	34.91	301	23.662	79	36.77	51	0.38	14	77.51	356	21.428	79	64.06	101
12.0	46.03	19	31.90	282	23.741	113	36.26	73	0.52	24	73.95	356	21.507	112	63.05	122
22.0	46.22	28	29.08	251	23.854	147	35.53	96	0.76	33	70.39	348	21.619	149	61.83	141
31.9	46.50	37	26.57	212	24.001	182	34.57	119	1.09	41	66.91	332	21.768	183	60.42	160
Apr. 10.9	46.87	45	24.45	163	24.183	215	33.38	141	1.50	50	63.59	309	21.951	217	58.82	175
20.9	47.32	51	22.82	109	24.398	245	31.97	160	2.00	57	60.50	280	22.168	249	57.07	188
30.8	47.83	56	21.73	52	24.643	272	30.37	176	2.57	64	57.70	246	22.417	275	55.19	197
Mai 10.8	48.39	59	21.21	8	24.915	292	28.61	187	3.21	68	55.24	204	22.692	297	53.22	200
20.8	48.98	60	21.29	66	25.207	306	26.74	194	3.89	72	53.20	160	22.989	312	51.22	199
30.8	49.58	61	21.95	122	25.513	312	24.80	197	4.61	73	51.60	112	23.301	319	49.23	193
Juni 9.7	50.19	59	23.17	175	25.825	310	22.83	192	5.34	74	50.48	61	23.620	318	47.30	181
19.7	50.78	55	24.92	224	26.135	301	20.91	185	6.08	71	49.87	8	23.938	309	45.49	166
29.7	51.33	50	27.16	265	26.436	284	19.06	171	6.79	67	49.79	44	24.247	291	43.83	145
Juli 9.7	51.83	45	29.81	301	26.720	258	17.35	154	7.46	62	50.23	95	24.538	267	42.38	122
19.6	52.28	37	32.82	328	26.978	227	15.81	133	8.08	54	51.18	142	24.805	235	41.16	95
29.6	52.65	29	36.10	350	27.205	191	14.48	110	8.62	45	52.60	186	25.040	198	40.21	68
Aug. 8.6	52.94	22	39.60	363	27.396	150	13.38	86	9.07	34	54.46	221	25.238	157	39.53	39
18.5	53.16	12	43.23	368	27.546	107	12.52	59	9.41	22	56.67	251	25.395	113	39.14	11
28.5	53.28	4	46.91	365	27.653	65	11.93	36	9.63	10	59.18	270	25.508	68	39.03	14
Sept. 7.5	53.32	4	50.56	356	27.718	23	11.57	12	9.73	1	61.88	280	25.576	25	39.17	37
17.5	53.28	12	54.12	338	27.741	15	11.45	9	9.72	14	64.68	279	25.601	15	39.54	56
27.4	53.16	20	57.50	314	27.726	50	11.54	28	9.58	26	67.47	267	25.586	51	40.10	72
Okt. 7.4	52.96	26	60.64	283	27.676	78	11.82	42	9.32	35	70.14	244	25.535	82	40.82	82
17.4	52.70	32	63.47	245	27.598	100	12.24	54	8.97	44	72.58	210	25.453	105	41.64	87
27.4	52.38	37	65.92	201	27.498	116	12.78	62	8.53	50	74.68	169	25.348	121	42.51	89
Nov. 6.3	52.01	41	67.93	151	27.382	124	13.40	67	8.03	55	76.37	119	25.227	132	43.40	86
16.3	51.60	43	69.44	96	27.258	128	14.07	69	7.48	56	77.56	64	25.095	134	44.26	80
26.3	51.17	44	70.40	40	27.130	125	14.76	69	6.92	57	78.20	6	24.961	132	45.06	69
Dez. 6.2	50.73	45	70.80	21	27.005	118	15.45	65	6.35	55	78.26	52	24.829	125	45.75	58
16.2	50.28	43	70.59	79	26.887	106	16.10	61	5.80	50	77.74	109	24.704	112	46.33	44
26.2	49.85	40	69.80	136	26.781	91	16.71	53	5.30	45	76.65	164	24.592	96	46.77	28
36.2	49.45		68.44		26.690		17.24		4.85		75.01		24.496		47.05	
Mittl. Ort	47.53		26.87		23.384		39.52		2.56		84.53		21.187		66.86	
sec δ, tg δ	2.437		+2.222		1.010		−0.141		2.997		−2.825		1.042		−0.292	

Mittlere Zeit Greenw.	867) α Pisc. austr. AR.		867) Dekl.		869) o Andromedae AR.		869) Dekl.		870) β Pegasi AR.		870) Dekl.		871) α Pegasi AR.		871) Dekl.	
1919	22h 53m		−30° 2′		22h 58m		+41° 53′		22h 59m		+27° 38′		23h 0m		+14° 46′	
	s		″		s		″		s		″		s		″	
Jan. 1.2	10.951	100	69.51	36	11.803	160	43.74	156	51.165	115	49.95	138	43.965	94	19.60	112
11.1	10.851	77	69.15	66	11.643	136	42.18	190	51.050	95	48.57	160	43.871	77	18.48	123
21.1	10.774	50	68.49	92	11.507	107	40.28	216	50.955	73	46.97	175	43.794	56	17.25	128
31.1	10.724	21	67.57	117	11.400	72	38.12	234	50.882	45	45.22	184	43.738	31	15.97	127
Feb. 10.1	10.703	10	66.40	141	11.328	31	35.78	242	50.837	12	43.38	184	43.707	3	14.70	121
20.0	10.713	44	64.99	163	11.297	15	33.36	239	50.825	24	41.54	175	43.704	28	13.49	108
März 2.0	10.757	80	63.36	182	11.312	64	30.97	226	50.849	64	39.79	159	43.732	63	12.41	88
12.0	10.837	118	61.54	198	11.376	116	28.71	204	50.913	104	38.20	135	43.795	100	11.53	63
22.0	10.955	155	59.56	213	11.492	167	26.67	173	51.017	147	36.85	103	43.895	139	10.90	34
31.9	11.110	194	57.43	222	11.659	216	24.94	133	51.164	189	35.82	66	44.034	175	10.56	0
Apr. 10.9	11.304	231	55.21	228	11.875	263	23.61	88	51.353	229	35.16	26	44.209	212	10.56	34
20.9	11.535	265	52.93	230	12.138	303	22.73	40	51.582	263	34.90	16	44.421	245	10.90	70
30.8	11.800	294	50.63	225	12.441	337	22.33	11	51.845	293	35.06	60	44.666	273	11.60	103
Mai 10.8	12.094	317	48.38	216	12.778	361	22.44	60	52.138	316	35.66	102	44.939	294	12.63	137
20.8	12.411	336	46.22	202	13.139	376	23.04	110	52.454	331	36.68	140	45.233	310	14.00	164
30.8	12.747	344	44.20	183	13.515	381	24.14	156	52.785	337	38.08	176	45.543	317	15.64	189
Juni 9.7	13.091	343	42.37	158	13.896	377	25.70	196	53.122	334	39.84	206	45.860	315	17.53	208
19.7	13.434	336	40.79	131	14.273	361	27.66	232	53.456	323	41.90	231	46.175	307	19.61	221
29.7	13.770	317	39.48	99	14.634	336	29.98	262	53.779	303	44.21	249	46.482	288	21.82	229
Juli 9.7	14.087	292	38.49	66	14.970	304	32.60	285	54.082	275	46.70	262	46.770	264	24.11	230
19.6	14.379	258	37.83	31	15.274	264	35.45	301	54.357	242	49.32	269	47.034	233	26.41	227
29.6	14.637	218	37.52	4	15.538	220	38.46	311	54.599	203	52.01	268	47.267	197	28.68	219
Aug. 8.6	14.855	174	37.56	37	15.758	170	41.57	313	54.802	161	54.69	263	47.464	157	30.87	205
18.5	15.029	125	37.93	67	15.928	120	44.70	309	54.963	116	57.32	253	47.621	115	32.92	189
28.5	15.154	76	38.60	95	16.048	69	47.79	299	55.079	72	59.85	237	47.736	74	34.81	170
Sept. 7.5	15.230	27	39.55	115	16.117	19	50.78	283	55.151	28	62.22	217	47.810	33	36.51	147
17.5	15.257	18	40.70	132	16.136	27	53.61	262	55.179	11	64.39	194	47.843	6	37.98	123
27.4	15.239	59	42.02	141	16.109	69	56.23	235	55.168	48	66.33	168	47.837	39	39.21	99
Okt. 7.4	15.180	94	43.43	143	16.040	106	58.58	205	55.120	79	68.01	139	47.798	68	40.20	73
17.4	15.086	122	44.86	139	15.934	137	60.63	170	55.041	105	69.40	109	47.730	92	40.93	48
27.4	14.964	143	46.25	128	15.797	161	62.33	131	54.936	124	70.49	76	47.638	109	41.41	23
Nov. 6.3	14.821	154	47.53	112	15.636	179	63.64	89	54.812	138	71.25	42	47.529	121	41.64	1
16.3	14.667	159	48.65	91	15.457	191	64.53	44	54.674	146	71.67	7	47.408	127	41.63	26
26.3	14.508	156	49.56	67	15.266	197	64.97	1	54.528	149	71.74	28	47.281	128	41.37	49
Dez. 6.2	14.352	148	50.23	40	15.069	195	64.96	47	54.379	146	71.46	62	47.153	125	40.88	70
16.2	14.204	134	50.63	12	14.874	188	64.49	92	54.233	139	70.84	95	47.028	118	40.18	90
26.2	14.070	116	50.75	17	14.686	175	63.57	134	54.094	127	69.89	123	46.910	106	39.28	106
36.2	13.954		50.58		14.511		62.23		53.967		68.66		46.804		38.22	
Mittl. Ort	10.653		66.52		11.448		25.04		50.711		35.21		43.478		8.86	
sec δ, tg δ	1.155		−0.579		1.343		+0.897		1.129		+0.524		1.034		+0.263	

Mittlere Zeit Greenw.	872) ϑ Gruis				873) c² Aquarii				874) π Cephei				875) Br. 3077			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1919	23ʰ 2ᵐ		−43° 56′		23ʰ 5ᵐ		−21° 36′		23ʰ 5ᵐ		+74° 56′		23ʰ 9ᵐ		+56° 43′	
Jan. 1.2	19.414	148	96.49	86	8.205	96	45.31	0	18.42	68	83.19	132	22.866	259	37.56	145
11.2	19.266	119	95.63	125	8.109	76	45.31	23	17.74	61	81.87	187	22.607	230	36.11	191
21.1	19.147	86	94.38	158	8.033	55	45.08	45	17.13	52	80.00	234	22.377	190	34.20	229
31.1	19.061	51	92.80	190	7.978	30	44.63	68	16.61	39	77.66	273	22.187	140	31.91	258
Feb. 10.1	19.010	12	90.90	217	7.948	1	43.95	91	16.22	26	74.93	299	22.047	82	29.33	276
20.0	18.998	— 28	88.73	239	7.947	— 30	43.04	113	15.96	12	71.94	313	21.965	18	26.57	283
März 2.0	19.026	72	86.34	256	7.977	63	41.91	134	15.84	— 4	68.81	316	21.947	— 52	23.74	278
12.0	19.098	117	83.78	270	8.040	98	40.57	155	15.88	20	65.65	304	21.999	125	20.96	262
22.0	19.215	162	81.08	277	8.138	136	39.02	173	16.08	36	62.61	281	22.124	196	18.34	234
31.9	19.377	207	78.31	279	8.274	173	37.29	189	16.44	50	59.80	246	22.320	265	16.00	198
Apr. 10.9	19.584	251	75.52	276	8.447	208	35.40	201	16.94	63	57.34	203	22.585	329	14.02	153
20.9	19.835	292	72.76	267	8.655	243	33.39	210	17.57	73	55.31	153	22.914	385	12.49	103
30.9	20.127	327	70.09	252	8.898	272	31.29	214	18.30	81	53.78	98	23.299	429	11.46	49
Mai 10.8	20.454	356	67.57	231	9.170	297	29.15	214	19.11	87	52.80	39	23.728	462	10.97	— 7
20.8	20.810	378	65.26	205	9.467	315	27.01	208	19.98	91	52.41	— 21	24.190	484	11.04	62
30.8	21.188	390	63.21	174	9.782	324	24.93	196	20.89	91	52.62	78	24.674	490	11.66	115
Juni 9.7	21.578	393	61.47	139	10.106	327	22.97	181	21.80	89	53.40	135	25.164	485	12.81	166
19.7	21.971	386	60.08	100	10.433	321	21.16	160	22.69	84	54.75	188	25.649	466	14.47	212
29.7	22.357	368	59.08	58	10.754	305	19.56	135	23.53	78	56.63	234	26.115	435	16.59	251
Juli 9.7	22.725	340	58.50	16	11.059	282	18.21	106	24.31	70	58.97	276	26.550	395	19.10	285
19.6	23.065	303	58.34	— 26	11.341	252	17.15	77	25.01	60	61.73	311	26.945	346	21.95	312
29.6	23.368	258	58.60	67	11.593	215	16.38	45	25.61	48	64.84	339	27.291	288	25.07	332
Aug. 8.6	23.626	207	59.27	105	11.808	174	15.93	14	26.09	36	68.23	359	27.579	228	28.39	344
18.6	23.833	151	60.32	138	11.982	130	15.79	— 17	26.45	23	71.82	372	27.807	163	31.83	350
28.5	23.984	93	61.70	166	12.112	85	15.96	44	26.68	11	75.54	376	27.970	98	35.33	347
Sept. 7.5	24.077	34	63.36	186	12.197	41	16.40	68	26.79	— 2	79.30	375	28.068	34	38.80	338
17.5	24.111	— 21	65.22	199	12.238	— 2	17.08	88	26.77	15	83.05	363	28.102	— 27	42.18	322
27.4	24.090	73	67.21	202	12.236	41	17.96	102	26.62	27	86.68	345	28.075	84	45.40	300
Okt. 7.4	24.017	117	69.23	198	12.195	73	18.98	112	26.35	38	90.13	320	27.991	136	48.40	271
17.4	23.900	154	71.21	185	12.122	100	20.10	114	25.97	47	93.33	286	27.855	182	51.11	235
27.4	23.746	182	73.06	164	12.022	119	21.24	111	25.50	57	96.19	245	27.673	219	53.46	196
Nov. 6.3	23.564	200	74.70	135	11.903	132	22.35	104	24.93	64	98.64	197	27.454	251	55.42	149
16.3	23.364	210	76.05	102	11.771	139	23.39	92	24.29	70	100.61	145	27.203	274	56.91	100
26.3	23.154	209	77.07	63	11.632	138	24.31	76	23.59	74	102.06	87	26.929	287	57.91	47
Dez. 6.3	22.945	202	77.70	24	11.494	133	25.07	59	22.85	76	102.93	26	26.642	294	58.38	— 8
16.2	22.743	186	77.94	— 18	11.361	124	25.66	37	22.09	75	103.19	— 36	26.348	290	58.30	63
26.2	22.557	166	77.76	60	11.237	109	26.03	16	21.34	71	102.83	98	26.058	277	57.67	116
36.2	22.391		77.16		11.128		26.19		20.63		101.85		25.781		56.51	
Mittl. Ort	19.239		89.86		7.786		44.41		19.02		58.07		22.576		15.21	
sec δ, tg δ	1.389		−0.964		1.076		−0.396		3.851		+3.719		1.822		+1.524	

Mittlere Zeit Greenw.	877) γ Tucanae AR.		877) γ Tucanae Dekl.		879) γ Sculptoris AR.		879) γ Sculptoris Dekl.		880) τ Pegasi AR.		880) τ Pegasi Dekl.	
1919	$23^h\ 12^m$		$-58°\ 40'$		$23^h\ 14^m$		$-32°\ 57'$		$23^h\ 16^m$		$+23°\ 17'$	
Jan. 1.2	42.464	254	57.81	131	27.580	123	89.02	36	38.116	114	61.61	122
11.2	42.210	214	56.50	178	27.457	100	88.66	69	38.002	98	60.39	140
21.1	41.996	168	54.72	219	27.357	77	87.97	99	37.904	79	58.99	153
31.1	41.828	116	52.53	254	27.280	49	86.98	128	37.825	54	57.46	159
Feb. 10.1	41.712	62	49.99	283	27.231	17	85.70	154	37.771	25	55.87	159
20.0	41.650	3	47.16	305	27.214	16	84.16	179	37.746	8	54.28	151
März 2.0	41.647	57	44.11	322	27.230	53	82.37	200	37.754	45	52.77	136
12.0	41.704	120	40.89	330	27.283	92	80.37	218	37.799	85	51.41	113
22.0	41.824	182	37.59	331	27.375	132	78.19	232	37.884	127	50.28	83
31.9	42.006	243	34.28	327	27.507	173	75.87	242	38.011	168	49.45	51
Apr. 10.9	42.249	303	31.01	315	27.680	214	73.45	248	38.179	207	48.94	13
20.9	42.552	357	27.86	297	27.894	250	70.97	248	38.386	245	48.81	27
30.9	42.909	406	24.89	272	28.144	285	68.49	243	38.631	275	49.08	66
Mai 10.8	43.315	447	22.17	241	28.429	312	66.06	233	38.906	301	49.74	104
20.8	43.762	478	19.76	205	28.741	333	63.73	216	39.207	319	50.78	139
30.8	44.240	497	17.71	163	29.074	347	61.57	196	39.526	328	52.17	172
Juni 9.7	44.737	504	16.08	118	29.421	351	59.61	169	39.854	329	53.89	198
19.7	45.241	499	14.90	71	29.772	346	57.92	139	40.183	321	55.87	221
29.7	45.740	478	14.19	20	30.118	333	56.53	104	40.504	305	58.08	236
Juli 9.7	46.218	446	13.99	29	30.451	310	55.49	68	40.809	282	60.44	246
19.6	46.664	401	14.28	77	30.761	279	54.81	31	41.091	250	62.90	251
29.6	47.065	344	15.05	124	31.040	240	54.50	8	41.341	215	65.41	249
Aug. 8.6	47.409	278	16.29	164	31.280	197	54.58	44	41.556	175	67.90	242
18.6	47.687	205	17.93	200	31.477	150	55.02	77	41.731	133	70.32	230
28.5	47.892	126	19.93	228	31.627	100	55.79	108	41.864	91	72.62	215
Sept. 7.5	48.018	47	22.21	246	31.727	50	56.87	131	41.955	48	74.77	195
17.5	48.065	31	24.67	256	31.777	3	58.18	150	42.003	10	76.72	173
27.4	48.034	104	27.23	255	31.780	42	59.68	161	42.013	27	78.45	148
Okt. 7.4	47.930	171	29.78	244	31.738	79	61.29	164	41.986	58	79.93	121
17.4	47.759	228	32.22	222	31.659	112	62.93	160	41.928	84	81.14	94
27.4	47.531	272	34.44	192	31.547	136	64.53	150	41.844	105	82.08	64
Nov. 6.3	47.259	305	36.36	152	31.411	152	66.03	132	41.739	121	82.72	34
16.3	46.954	323	37.88	108	31.259	162	67.35	109	41.618	130	83.06	4
26.3	46.631	329	38.96	58	31.097	164	68.44	82	41.488	136	83.10	27
Dez. 6.3	46.302	323	39.54	6	30.933	160	69.26	51	41.352	136	82.83	56
16.2	45.979	305	39.60	48	30.773	150	69.77	20	41.216	132	82.27	85
26.2	45.674	277	39.12	98	30.623	136	69.97	14	41.084	125	81.42	109
36.2	45.397		38.14		30.487		69.83		40.959		80.33	
Mittl. Ort	42.582		48.10		27.202		84.70		37.532		48.09	
sec δ, tg δ	1.924		−1.644		1.192		−0.649		1.089		+0.431	

Mittlere Zeit Greenw.	882) 4 Cassiopeiae AR.		882) Dekl.		884) ϰ Piscium AR.		884) Dekl.		885) 70 Pegasi AR.		885) Dekl.	
	23ʰ 21ᵐ		+61° 50′		23ʰ 22ᵐ		+0° 48′		23ʰ 25ᵐ		+12° 18′	
1919	s		″		s		″		s		″	
Jan. 1.2	14.32	33	40.05	129	47.405	94	49.15	73	4.040	103	58.34	98
11.2	13.99	31	38.76	179	47.311	81	48.42	70	3.937	88	57.36	106
21.1	13.68	26	36.97	221	47.230	64	47.72	64	3.849	72	56.30	111
31.1	13.42	20	34.76	256	47.166	43	47.08	54	3.777	51	55.19	109
Feb. 10.1	13.22	14	32.20	279	47.123	18	46.54	41	3.726	25	54.10	102
20.1	13.08	6	29.41	292	47.105	10	46.13	24	3.701	5	53.08	90
März 2.0	13.02	2	26.49	292	47.115	42	45.89	3	3.706	39	52.18	73
12.0	13.04	10	23.57	279	47.157	77	45.86	20	3.745	75	51.45	49
22.0	13.14	19	20.78	256	47.234	114	46.06	46	3.820	113	50.96	22
31.9	13.33	27	18.22	223	47.348	150	46.52	72	3.933	152	50.74	8
Apr. 10.9	13.60	35	15.99	181	47.498	188	47.24	100	4.085	191	50.82	40
20.9	13.95	42	14.18	132	47.686	222	48.24	125	4.276	226	51.22	73
30.9	14.37	46	12.86	79	47.908	252	49.49	148	4.502	257	51.95	105
Mai 10.8	14.83	51	12.07	22	48.160	277	50.97	169	4.759	283	53.00	135
20.8	15.34	54	11.85	33	48.437	297	52.66	185	5.042	302	54.35	161
30.8	15.88	55	12.18	89	48.734	307	54.51	196	5.344	313	55.96	184
Juni 9.8	16.43	54	13.07	142	49.041	311	56.47	202	5.657	317	57.80	200
19.7	16.97	53	14.49	191	49.352	307	58.49	203	5.974	311	59.80	213
29.7	17.50	49	16.40	234	49.659	294	60.52	199	6.285	297	61.93	219
Juli 9.7	17.99	46	18.74	272	49.953	273	62.51	189	6.582	277	64.12	220
19.6	18.45	40	21.46	304	50.226	247	64.40	175	6.859	249	66.32	216
29.6	18.85	33	24.50	328	50.473	213	66.15	157	7.108	216	68.48	206
Aug. 8.6	19.18	26	27.78	344	50.686	177	67.72	137	7.324	180	70.54	193
18.6	19.44	20	31.22	355	50.863	138	69.09	114	7.504	139	72.47	176
28.5	19.64	12	34.77	356	51.001	97	70.23	89	7.643	99	74.23	156
Sept. 7.5	19.76	5	38.33	352	51.098	57	71.12	66	7.742	58	75.79	134
17.5	19.81	2	41.85	340	51.155	19	71.78	42	7.800	21	77.13	111
27.5	19.79	8	45.25	320	51.174	15	72.20	20	7.821	14	78.24	87
Okt. 7.4	19.71	16	48.45	294	51.159	46	72.40	1	7.807	45	79.11	64
17.4	19.55	20	51.39	261	51.113	71	72.39	17	7.762	69	79.75	40
27.4	19.35	26	54.00	223	51.042	90	72.22	34	7.693	90	80.15	17
Nov. 6.3	19.09	29	56.23	177	50.952	105	71.88	47	7.603	105	80.32	5
16.3	18.80	33	58.00	127	50.847	113	71.41	57	7.498	115	80.27	25
26.3	18.47	35	59.27	74	50.734	117	70.84	65	7.383	120	80.02	45
Dez. 6.3	18.12	36	60.01	17	50.617	117	70.19	72	7.263	122	79.57	64
16.2	17.76	36	60.18	41	50.500	112	69.47	74	7.141	118	78.93	80
26.2	17.40	35	59.77	97	50.388	104	68.73	77	7.023	111	78.13	93
36.2	17.05		58.80		50.284		67.96		6.912		77.20	
Mittl. Ort	13.96		16.49		46.802		43.11		3.402		48.43	
sec δ, tg δ	2.119		+1.868		1.000		+0.014		1.024		+0.218	

Mittlere Zeit Greenw.	891) ι Andromedae AR.		891) ι Andromedae Dekl.		892) ι Piscium AR.		892) ι Piscium Dekl.		893) γ Cephei AR.		893) γ Cephei Dekl.	
1919	$23^h 34^m$		$+42° 49'$		$23^h 35^m$		$+5° 11'$		$23^h 35^m$		$+77° 10'$	
Jan. 1.2	$10^s.221$	180	$29''.41$	123	$47^s.680$	101	$20''.84$	82	$60^s.84$	85	$74''.82$	88
11.2	10.041	164	28.18	159	47.579	89	20.02	84	59.99	79	73.94	146
21.2	9.877	142	26.59	191	47.490	74	19.18	82	59.20	70	72.48	199
31.1	9.735	111	24.68	215	47.416	54	18.36	74	58.50	57	70.49	245
Feb. 10.1	9.624	75	22.53	228	47.362	32	17.62	65	57.93	43	68.04	279
20.1	9.549	31	20.25	234	47.330	3	16.97	49	57.50	27	65.25	302
März 2.0	9.518	17	17.91	227	47.327	29	16.48	30	57.23	9	62.23	313
12.0	9.535	70	15.64	213	47.356	65	16.18	8	57.14	10	59.10	312
22.0	9.605	124	13.51	187	47.421	101	16.10	18	57.24	28	55.98	296
Apr. 1.0	9.729	178	11.64	154	47.522	140	16.28	45	57.52	46	53.02	271
10.9	9.907	230	10.10	115	47.662	179	16.73	75	57.98	63	50.31	234
20.9	10.137	278	8.95	71	47.841	214	17.48	102	58.61	76	47.97	189
30.9	10.415	317	8.24	23	48.055	246	18.50	130	59.37	88	46.08	139
Mai 10.9	10.732	350	8.01	26	48.301	274	19.80	153	60.25	97	44.69	83
20.8	11.082	374	8.27	73	48.575	294	21.33	173	61.22	103	43.86	25
30.8	11.456	386	9.00	120	48.869	308	23.06	189	62.25	105	43.61	33
Juni 9.8	11.842	390	10.20	163	49.177	313	24.95	200	63.30	106	43.94	90
19.7	12.232	382	11.83	201	49.490	310	26.95	205	64.36	102	44.84	144
29.7	12.614	364	13.84	233	49.800	298	29.00	205	65.38	97	46.28	196
Juli 9.7	12.978	338	16.17	261	50.098	281	31.05	200	66.35	89	48.24	241
19.7	13.316	304	18.78	282	50.379	255	33.05	190	67.24	79	50.65	281
29.6	13.620	263	21.60	295	50.634	223	34.95	176	68.03	67	53.46	315
Aug. 8.6	13.883	218	24.55	303	50.857	188	36.71	157	68.70	55	56.61	342
18.6	14.101	170	27.58	305	51.045	150	38.28	137	69.25	41	60.03	361
28.5	14.271	120	30.63	299	51.195	110	39.65	114	69.66	26	63.64	373
Sept. 7.5	14.391	72	33.62	288	51.305	71	40.79	91	69.92	12	67.37	378
17.5	14.463	24	36.50	273	51.376	32	41.70	68	70.04	3	71.15	374
27.5	14.487	21	39.23	250	51.408	2	42.38	44	70.01	18	74.89	362
Okt. 7.4	14.466	60	41.73	225	51.406	33	42.82	23	69.83	31	78.51	343
17.4	14.406	96	43.98	193	51.373	59	43.05	3	69.52	44	81.94	316
27.4	14.310	126	45.91	159	51.314	80	43.08	16	69.08	60	85.10	281
Nov. 6.4	14.184	151	47.50	120	51.234	95	42.92	32	68.48	63	87.91	239
16.3	14.033	170	48.70	78	51.139	107	42.60	46	67.85	75	90.30	189
26.3	13.863	184	49.48	35	51.032	113	42.14	59	67.10	83	92.19	134
Dez. 6.3	13.679	192	49.83	11	50.919	116	41.55	69	66.27	87	93.53	75
16.2	13.487	194	49.72	56	50.803	114	40.86	77	65.40	89	94.28	12
26.2	13.293	190	49.16	99	50.689	109	40.09	82	64.51	87	94.40	51
36.2	13.103		48.17		50.580		39.27		63.64		93.89	
Mittl. Ort	9.531		10.03		46.990		13.44		60.67		48.88	
sec δ, tg δ	1.363		+0.927		1.004		+0.091		4.507		+4.395	

Mittlere Zeit Greenw.	894) ω² Aquarii AR.		894) ω² Aquarii Dekl.		895) 41 H. Cephei AR.		895) 41 H. Cephei Dekl.		896) Lac. δ Sculptoris AR.		896) Lac. δ Sculptoris Dekl.	
	23ʰ 38ᵐ		−14° 59′		23ʰ 44ᵐ		+67° 21′		23ʰ 44ᵐ		−28° 34′	
1919	s		″		s		″		s		″	
Jan. 1.2	32.013	106	33.83	33	2.31	44	48.89	94	43.114	129	45.79	2
11.2	31.907	94	34.16	14	1.87	42	47.95	148	42.985	115	45.77	34
21.2	31.813	78	34.30	5	1.45	37	46.47	198	42.870	97	45.43	65
31.1	31.735	57	34.25	27	1.08	31	44.49	240	42.773	75	44.78	94
Feb. 10.1	31.678	34	33.98	49	0.77	24	42.09	270	42.698	49	43.84	123
20.1	31.644	5	33.49	71	0.53	14	39.39	292	42.649	18	42.61	150
März 2.0	31.639	25	32.78	95	0.39	5	36.47	299	42.631	16	41.11	173
12.0	31.664	61	31.83	117	0.34	6	33.48	295	42.647	53	39.38	196
22.0	31.725	98	30.66	139	0.40	17	30.53	278	42.700	93	37.42	214
Apr. 1.0	31.823	136	29.27	160	0.57	27	27.75	252	42.793	135	35.28	230
10.9	31.959	174	27.67	178	0.84	37	25.23	215	42.928	176	32.98	240
20.9	32.133	211	25.89	193	1.21	45	23.08	171	43.104	216	30.58	247
30.9	32.344	244	23.96	205	1.66	53	21.37	121	43.320	251	28.11	247
Mai 10.9	32.588	273	21.91	211	2.19	59	20.16	66	43.571	284	25.64	243
20.8	32.861	295	19.80	213	2.78	63	19.50	10	43.855	309	23.21	232
30.8	33.156	310	17.67	210	3.41	65	19.40	47	44.164	328	20.89	217
Juni 9.8	33.466	318	15.57	200	4.06	65	19.87	102	44.492	337	18.72	195
19.7	33.784	316	13.57	186	4.71	64	20.89	154	44.829	337	16.77	168
29.7	34.100	307	11.71	167	5.35	62	22.43	202	45.166	330	15.09	138
Juli 9.7	34.407	289	10.04	145	5.97	56	24.45	244	45.496	313	13.71	104
19.7	34.696	265	8.59	117	6.53	51	26.89	282	45.809	288	12.67	66
29.6	34.961	233	7.42	88	7.04	45	29.71	312	46.097	255	12.01	29
Aug. 8.6	35.194	197	6.54	59	7.49	36	32.83	335	46.352	217	11.72	8
18.6	35.391	158	5.95	28	7.85	29	36.18	352	46.569	175	11.80	45
28.6	35.549	115	5.67	2	8.14	20	39.70	361	46.744	129	12.25	77
Sept. 7.5	35.664	74	5.69	29	8.34	11	43.31	362	46.873	83	13.02	107
17.5	35.738	34	5.98	53	8.45	3	46.93	357	46.956	38	14.09	130
27.5	35.772	4	6.51	73	8.48	6	50.50	343	46.994	5	15.39	147
Okt. 7.4	35.768	37	7.24	88	8.42	13	53.93	323	46.989	43	16.86	157
17.4	35.731	66	8.12	97	8.29	21	57.16	294	46.946	76	18.43	159
27.4	35.665	88	9.09	103	8.08	28	60.10	260	46.870	103	20.02	156
Nov. 6.4	35.577	105	10.12	102	7.80	33	62.70	217	46.767	123	21.58	144
16.3	35.472	117	11.14	98	7.47	39	64.87	169	46.644	138	23.02	126
26.3	35.355	123	12.12	89	7.08	42	66.56	117	46.506	146	24.28	105
Dez. 6.3	35.232	124	13.01	77	6.66	45	67.73	60	46.360	148	25.33	78
16.3	35.108	122	13.78	63	6.21	46	68.33	0	46.212	146	26.11	50
26.2	34.986	115	14.41	46	5.75	46	68.33	60	46.066	139	26.61	19
36.2	34.871		14.87		5.29		67.73		45.927		26.80	
Mittl. Ort	31.383		34.36		1.64		24.14		42.536		41.98	
sec δ, tg δ	1.035		−0.268		2.597		+2.397		1.139		−0.545	

Mittlere Zeit Greenw.	898) φ Pegasi AR.		Dekl.		902) ω Piscium AR.		Dekl.		903) ε Tucanae AR.		Dekl.	
	$23^h\ 48^m$		+18° 40'		$23^h\ 55^m$		+6° 24'		$23^h\ 55^m$		−66° 1'	
1919												
Jan. 1.2	22.685	117	25.14	99	9.851	107	61.09	81	42.89	41	52.29	105
11.2	22.568	108	24.15	113	9.744	100	60.28	83	42.48	38	51.24	160
21.2	22.460	94	23.02	124	9.644	88	59.45	81	42.10	32	49.64	209
31.1	22.366	76	21.78	129	9.556	70	58.64	77	41.78	27	47.55	252
Feb. 10.1	22.290	50	20.49	128	9.486	49	57.87	67	41.51	21	45.03	288
20.1	22.240	21	19.21	121	9.437	23	57.20	54	41.30	14	42.15	318
März 2.1	22.219	12	18.00	108	9.414	9	56.66	36	41.16	6	38.97	340
12.0	22.231	51	16.92	87	9.423	44	56.30	15	41.10	3	35.57	353
22.0	22.282	92	16.05	62	9.467	83	56.15	11	41.13	10	32.04	362
Apr. 1.0	22.374	134	15.43	33	9.550	121	56.26	37	41.23	18	28.42	360
10.9	22.508	175	15.10	0	9.671	161	56.63	66	41.41	27	24.82	350
20.9	22.683	214	15.10	35	9.832	200	57.29	94	41.68	34	21.32	335
30.9	22.897	250	15.45	69	10.032	234	58.23	121	42.02	41	17.97	311
Mai 10.9	23.147	279	16.14	104	10.266	264	59.44	145	42.43	48	14.86	280
20.8	23.426	302	17.18	135	10.530	287	60.89	168	42.91	53	12.06	244
30.8	23.728	317	18.53	163	10.817	304	62.57	184	43.44	57	9.62	201
Juni 9.8	24.045	324	20.16	187	11.121	312	64.41	197	44.01	60	7.61	154
19.8	24.369	322	22.03	205	11.433	313	66.38	204	44.61	60	6.07	102
29.7	24.691	312	24.08	218	11.746	304	68.42	205	45.21	60	5.05	49
Juli 9.7	25.003	294	26.26	227	12.050	289	70.47	202	45.81	58	4.56	5
19.7	25.297	268	28.53	228	12.339	265	72.49	194	46.39	54	4.61	60
29.6	25.565	238	30.81	225	12.604	237	74.43	180	46.93	48	5.21	113
Aug. 8.6	25.803	202	33.06	217	12.841	204	76.23	164	47.41	41	6.34	159
18.6	26.005	163	35.23	204	13.045	167	77.87	144	47.82	33	7.93	204
28.6	26.168	124	37.27	189	13.212	129	79.31	122	48.15	24	9.97	240
Sept. 7.5	26.292	84	39.16	170	13.341	89	80.53	99	48.39	14	12.37	266
17.5	26.376	45	40.86	148	13.430	52	81.52	75	48.53	4	15.03	283
27.5	26.421	9	42.34	125	13.482	17	82.27	52	48.57	5	17.86	289
Okt. 7.5	26.430	23	43.59	101	13.499	14	82.79	31	48.52	15	20.75	284
17.4	26.407	51	44.60	77	13.485	42	83.10	10	48.37	23	23.59	266
27.4	26.356	74	45.37	51	13.443	66	83.20	9	48.14	31	26.25	240
Nov. 6.4	26.282	93	45.88	26	13.377	83	83.11	26	47.83	37	28.65	202
16.3	26.189	108	46.14	1	13.294	97	82.85	41	47.46	41	30.67	156
26.3	26.081	118	46.15	23	13.197	107	82.44	53	47.05	44	32.23	104
Dez. 6.3	25.963	124	45.92	48	13.090	113	81.91	65	46.61	45	33.27	48
16.3	25.839	125	45.44	69	12.977	115	81.26	74	46.16	45	33.75	10
26.2	25.714	124	44.75	90	12.862	114	80.52	80	45.71	42	33.65	69
36.2	25.590		43.85		12.748		79.72		45.29		32.96	
Mittl. Ort	21.885		13.21		9.041		53.46		42.95		40.18	
sec δ, tg δ	1.055		+0.338		1.006		+0.112		2.461		−2.249	

1919	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in ^{s} 0.01	+85° 49′	in $''$ 0.01	$1^h 31^m$	in ^{s} 0.01	+88° 52′	in $''$ 0.01	$4^h 10^m$	in ^{s} 0.01	+85° 20′	in $''$ 0.01
Jan. 0	32.10	+ 6	49.81	− 5	49.23	+21	45.06	− 6	58.64	+ 1	40.19	− 9
1	31.82	+ 7	49.89	− 2	48.23	+23	45.19	− 3	58.53	+ 3	40.47	− 7
2	31.54	+ 7	49.97	+ 1	47.21	+24	45.32	+ 1	58.41	+ 5	40.76	− 4
3	31.26	+ 5	50.03	+ 4	46.19	+17	45.44	+ 4	58.29	+ 6	41.03	0
4	30.98	+ 1	50.09	+ 6	45.17	+ 6	45.56	+ 6	58.17	+ 5	41.31	+ 4
5	30.70	− 2	50.15	+ 6	44.14	− 8	45.67	+ 7	58.05	+ 2	41.57	+ 7
6	30.42	− 6	50.20	+ 4	43.10	−21	45.77	+ 5	57.92	− 1	41.84	+ 8
7	30.13	− 8	50.24	+ 1	42.07	−29	45.86	+ 2	57.79	− 5	42.10	+ 7
8	29.85	− 9	50.27	− 2	41.03	−32	45.95	− 1	57.65	− 7	42.36	+ 5
9	29.57	− 7	50.30	− 6	39.98	−27	46.03	− 5	57.51	− 8	42.61	0
10	29.29	− 4	50.32	− 8	38.91	−15	46.11	− 8	57.36	− 7	42.86	− 4
11	29.00	0	50.33	− 8	37.85	+ 1	46.18	− 8	57.21	− 5	43.10	− 7
12	28.72	+ 5	50.33	− 6	36.79	+16	46.24	− 7	57.05	− 1	43.34	− 9
13	28.43	+ 8	50.33	− 3	35.72	+29	46.30	− 4	56.89	+ 4	43.58	− 8
14	28.15	+ 9	50.32	+ 2	34.65	+33	46.35	0	56.73	+ 7	43.81	− 5
15	27.87	+ 9	50.31	+ 6	33.57	+31	46.39	+ 5	56.56	+ 9	44.04	− 1
16	27.58	+ 6	50.29	+ 9	32.49	+23	46.42	+ 8	56.39	+10	44.26	+ 3
17	27.30	+ 3	50.26	+11	31.41	+10	46.45	+10	56.21	+ 8	44.48	+ 6
18	27.02	− 1	50.23	+10	30.34	− 3	46.47	+10	56.04	+ 5	44.69	+ 9
19	26.73	− 4	50.20	+ 8	29.26	−15	46.49	+ 9	55.85	+ 2	44.90	+ 9
20	26.45	− 6	50.17	+ 5	28.18	−23	46.50	+ 6	55.67	− 1	45.11	+ 8
21	26.17	− 7	50.13	+ 1	27.10	−26	46.50	+ 2	55.48	− 4	45.31	+ 6
22	25.89	− 7	50.08	− 3	26.02	−24	46.50	− 2	55.29	− 6	45.50	+ 3
23	25.61	− 5	50.01	− 6	24.95	−19	46.49	− 5	55.09	− 7	45.68	− 1
24	25.34	− 3	49.94	− 8	23.87	−11	46.47	− 7	54.90	− 7	45.86	− 4
25	25.06	0	49.86	− 8	22.79	− 1	46.45	− 8	54.69	− 5	46.04	− 7
26	24.79	+ 3	49.78	− 8	21.71	+ 9	46.42	− 8	54.49	− 3	46.21	− 8
27	24.51	+ 5	49.69	− 6	20.64	+18	46.38	− 7	54.28	0	46.37	− 9
28	24.24	+ 7	49.60	− 4	19.57	+23	46.34	− 4	54.07	+ 2	46.53	− 7
29	23.97	+ 7	49.50	0	18.51	+24	46.29	− 1	53.85	+ 4	46.69	− 5
30	23.70	+ 5	49.38	+ 3	17.45	+19	46.23	+ 2	53.63	+ 5	46.84	− 1
31	23.43	+ 3	49.27	+ 5	16.39	+10	46.17	+ 5	53.41	+ 5	46.98	+ 3
Febr. 1	23.17	− 1	49.15	+ 6	15.34	− 2	46.10	+ 7	53.18	+ 4	47.12	+ 6
2	22.90	− 4	49.02	+ 6	14.29	−15	46.03	+ 6	52.96	+ 1	47.26	+ 8
3	22.64	− 7	48.89	+ 3	13.25	−26	45.95	+ 4	52.73	− 3	47.38	+ 8
4	22.39	− 9	48.75	0	12.22	−29	45.86	+ 1	52.50	− 6	47.50	+ 6
5	22.13	− 8	48.61	− 4	11.19	−29	45.76	− 3	52.27	− 7	47.62	+ 3
6	21.88	− 5	48.46	− 7	10.16	−19	45.66	− 6	52.03	− 8	47.73	− 2
sec δ, tg δ	85° 49′ 40″	13.745	+13.708		88° 52′ 40″	51.059	+51.049		85° 20′ 40″	12.321	+12.280	
	50	13.754	+13.718		50	51.186	+51.176		50	12.328	+12.287	

1919	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 3^m$	in s 0.01	+87° 10′	in ″ 0.01	$9^h 25^m$	in s 0.01	+81° 40′	in ″ 0.01	$16^h 54^m$	in s 0.01	+82° 10′	in ″ 0.01
Jan. 0	38.68	− 6	35.95	− 7	47.91	− 4	48.96	− 4	1.47	− 1	14.04	+ 8
1	38.82	− 2	36.26	− 7	48.04	− 2	49.14	− 5	1.52	− 1	13.71	+ 6
2	38.96	+ 3	36.56	− 6	48.17	0	49.32	− 6	1.58	− 2	13.38	+ 3
3	39.08	+ 7	36.87	− 3	48.30	+ 2	49.50	− 5	1.64	− 2	13.05	− 1
4	39.20	+ 9	37.17	0	48.43	+ 3	49.69	− 3	1.71	− 1	12.73	− 5
5	39.30	+ 9	37.48	+ 4	48.55	+ 4	49.88	0	1.77	0	12.41	− 7
6	39.40	+ 6	37.79	+ 7	48.67	+ 4	50.08	+ 4	1.84	+ 1	12.09	− 8
7	39.49	+ 1	38.10	+ 9	48.79	+ 2	50.28	+ 7	1.91	+ 2	11.78	− 7
8	39.57	− 5	38.41	+ 8	48.90	0	50.49	+ 9	1.98	+ 3	11.47	− 4
9	39.65	−10	38.73	+ 6	49.01	− 2	50.70	+ 9	2.06	+ 3	11.16	0
10	39.71	−12	39.04	+ 2	49.12	− 4	50.92	+ 6	2.14	+ 2	10.85	+ 4
11	39.76	−12	39.35	− 2	49.23	− 5	51.14	+ 2	2.22	+ 1	10.55	+ 8
12	39.81	− 8	39.66	− 6	49.33	− 4	51.37	− 2	2.31	0	10.25	+ 9
13	39.84	− 2	39.98	− 9	49.44	− 3	51.60	− 7	2.40	− 2	9.96	+ 8
14	39.87	+ 4	40.29	− 9	49.54	0	51.83	− 9	2.49	− 3	9.67	+ 5
15	39.88	+10	40.61	− 8	49.63	+ 2	52.07	−10	2.58	− 4	9.38	+ 1
16	39.89	+15	40.92	− 5	49.73	+ 4	52.31	− 9	2.68	− 3	9.10	− 3
17	39.89	+16	41.24	0	49.82	+ 5	52.55	− 6	2.78	− 2	8.82	− 6
18	39.88	+14	41.55	+ 3	49.91	+ 6	52.80	− 3	2.88	− 1	8.54	− 8
19	39.86	+10	41.86	+ 6	50.00	+ 5	53.05	+ 1	2.98	0	8.27	− 9
20	39.83	+ 5	42.17	+ 8	50.08	+ 4	53.30	+ 4	3.09	+ 1	8.00	− 8
21	39.79	0	42.48	+ 8	50.16	+ 2	53.56	+ 6	3.20	+ 2	7.74	− 6
22	39.74	− 5	42.79	+ 6	50.24	0	53.82	+ 7	3.31	+ 2	7.48	− 2
23	39.68	− 9	43.10	+ 4	50.31	− 2	54.08	+ 7	3.43	+ 2	7.22	+ 1
24	39.62	−12	43.41	+ 1	50.38	− 4	54.35	+ 5	3.54	+ 2	6.97	+ 4
25	39.54	−12	43.71	− 2	50.45	− 5	54.62	+ 3	3.66	+ 2	6.73	+ 7
26	39.46	−11	44.02	− 4	50.52	− 5	54.89	+ 1	3.78	+ 1	6.49	+ 8
27	39.37	− 8	44.32	− 6	50.58	− 4	55.17	− 2	3.90	0	6.25	+ 9
28	39.27	− 4	44.63	− 7	50.65	− 3	55.45	− 4	4.03	− 1	6.02	+ 7
29	39.17	+ 1	44.93	− 7	50.70	− 1	55.73	− 6	4.15	− 2	5.80	+ 4
30	39.05	+ 6	45.23	− 5	50.76	+ 1	56.01	− 6	4.28	− 2	5.58	0
31	38.92	+ 9	45.53	− 1	50.81	+ 3	56.29	− 4	4.41	− 2	5.37	− 3
Febr. 1	38.79	+10	45.82	+ 3	50.86	+ 4	56.58	− 1	4.54	− 1	5.16	− 7
2	38.65	+ 8	46.12	+ 6	50.90	+ 4	56.87	+ 2	4.67	0	4.95	− 8
3	38.49	+ 3	46.41	+ 9	50.94	+ 3	57.16	+ 6	4.81	+ 2	4.76	− 8
4	38.33	− 2	46.69	+ 9	50.98	+ 1	57.45	+ 8	4.94	+ 2	4.57	− 6
5	38.17	− 7	46.98	+ 7	51.02	− 1	57.75	+ 9	5.08	+ 3	4.38	− 2
6	37.99	−11	47.26	+ 4	51.05	− 3	58.04	+ 7	5.22	+ 2	4.20	+ 2
sec δ, tg δ	87° 10′ 40″	20.310	+20.285		81° 40′ 50″	6.911	+6.839		82° 10′ 0″	7.337	+7.269	
	50	20.330	+20.305		60	6.914	+6.841		10	7.340	+7.271	

1919	δ Ursae minoris 4ᵐ.3				λ Ursae minoris 6ᵐ.8				76 Draconis 6ᵐ.0			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 57^m$	in s 0.01	+86° 36′	in ″ 0.01	$18^h 58^m$	in s 0.01	+89° 1′	in ″ 0.01	$20^h 48^m$	in s 0.01	+82° 14′	in ″ 0.01
Jan. 0	53.01	+ 1	51.08	+ 8	35.51	+22	20.19	+ 6	23.57	+ 3	14.96	+ 3
1	53.03	− 2	50.75	+ 7	35.16	+11	19.88	+ 7	23.47	+ 3	14.71	+ 6
2	53.03	− 4	50.42	+ 4	34.84	− 1	19.56	+ 7	23.36	+ 2	14.45	+ 7
3	53.05	− 6	50.09	0	34.54	−13	19.24	+ 5	23.27	0	14.19	+ 6
4	53.08	− 5	49.76	− 4	34.26	−21	18.92	+ 2	23.17	− 1	13.93	+ 4
5	53.12	− 3	49.43	− 7	34.01 33.78	− 24 − 20	18.60 18.28	− 2 − 6	23.08	− 2	13.66	+ 2
6	53.17	0	49.10	− 9	33.58	− 9	17.96	− 8	23.00	− 3	13.39	− 3
7	53.22	+ 3	48.77	− 8	33.41	+ 4	17.64	− 9	22.91	− 3	13.11	− 7
8	53.28	+ 6	48.44	− 6	33.26	+18	17.32	− 8	22.83	− 2	12.84	− 9
9	53.35	+ 8	48.12	− 2	33.13	+28	17.00	− 4	22.75	− 1	12.55	− 9
10	53.43	+ 8	47.79	+ 2	33.03	+31	16.67	0	22.67	+ 1	12.27	− 7
11	53.51	+ 6	47.47	+ 6	32.96	+27	16.35	+ 5	22.60	+ 2	11.98	− 3
12	53.60	+ 2	47.15	+ 9	32.91	+15	16.02	+ 8	22.53	+ 3	11.69	+ 1
13	53.70	− 3	46.83	+ 9	32.89	− 1	15.70	+10	22.46	+ 3	11.39	+ 6
14	53.81	− 7	46.51	+ 7	32.90	−17	15.37	+ 9	22.39	+ 2	11.09	+ 9
15	53.92	− 9	46.20	+ 4	32.93	−31	15.05	+ 6	22.33	+ 1	10.79	+10
16	54.03	−10	45.88	0	32.99	−38	14.72	+ 2	22.27	− 1	10.49	+ 9
17	54.16	− 9	45.57	− 4	33.07	−38	14.40	− 2	22.21	− 2	10.18	+ 7
18	54.29	− 7	45.26	− 7	33.18	−32	14.08	− 5	22.16	− 3	9.88	+ 3
19	54.43	− 4	44.96	− 8	33.31	−21	13.76	− 7	22.11	− 4	9.57	− 1
20	54.57	0	44.65	− 8	33.47	− 8	13.44	− 8	22.06	− 3	9.26	− 4
21	54.72	+ 3	44.35	− 6	33.65	+ 6	13.12	− 7	22.01	− 3	8.95	− 6
22	54.88	+ 6	44.05	− 4	33.86	+18	12.80	− 5	21.97	− 1	8.63	− 7
23	55.04	+ 7	43.76	− 1	34.10	+26	12.49	− 3	21.93	0	8.32	− 7
24	55.21	+ 8	43.46	+ 2	34.36	+31	12.17	0	21.90	+ 1	8.00	− 6
25	55.39	+ 7	43.18	+ 5	34.65	+31	11.86	+ 3	21.87	+ 2	7.68	− 3
26	55.58	+ 5	42.89	+ 7	34.96	+26	11.55	+ 6	21.84	+ 3	7.36	− 1
27	55.77	+ 2	42.61	+ 8	35.30	+16	11.24	+ 7	21.81	+ 3	7.04	+ 2
28	55.96	− 1	42.33	+ 7	35.66	+ 4	10.94	+ 7	21.79	+ 3	6.71	+ 5
29	56.17	− 3	42.06	+ 5	36.04	− 8	10.63	+ 6	21.76	+ 2	6.39	+ 6
30	56.38	− 5	41.79	+ 2	36.45	−18	10.33	+ 3	21.75	+ 1	6.07	+ 6
31	56.60	− 6	41.52	− 2	36.88	−23	10.03	− 1	21.73	− 1	5.74	+ 5
Febr. 1	56.82	− 5	41.26	− 6	37.34	−23	9.73	− 4	21.72	− 2	5.42	+ 2
2	57.05	− 2	41.00	− 8	37.82	−15	9.44	− 7	21.71 21.71	− 3 − 3	5.09 4.77	− 1 − 5
3	57.28	+ 1	40.75	− 9	38.32	− 3	9.14	− 9	21.71	− 2	4.44	− 8
4	57.52	+ 5	40.50	− 7	38.85	+11	8.85	− 8	21.71	− 1	4.11	− 9
5	57.76	+ 7	40.26	− 4	39.40	+22	8.56	− 6	21.72	0	3.78	− 8
6	58.01	+ 8	40.02	0	39.97	+29	8.27	− 1	21.72	+ 2	3.45	− 4
sec δ, tg δ	86° 36′ 40″	16.917	+16.887		89° 1′ 10″	58.435	+58.426		82° 14′ 0″	7.400	+7.332	
	50	16.931	+16.901		20	58.601	+58.592		10	7.402	+7.335	

1919	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in $0.^s01$	$+85° 49'$	in $0.''01$	$1^h 30^m$	in $0.^s01$	$+88° 52'$	in $0.''01$	$4^h 10^m$	in $0.^s01$	$+85° 20'$	in $0.''01$
Febr. 6	21.88	− 5	48.46	− 7	70.16	−19	45.66	− 6	52.03	− 8	47.73	− 2
7	21.63	− 1	48.31	− 8	69.15	− 5	45.55	− 8	51.80	− 6	47.83	− 6
8	21.38	+ 3	48.15	− 7	68.14	+11	45.44	− 7	51.56	− 2	47.93	− 8
9	21.14	+ 7	47.98	− 4	67.14	+25	45.32	− 5	51.32	+ 2	48.02	− 9
10	20.90	+ 9	47.81	0	66.15	+32	45.19	− 1	51.08	+ 6	48.10	− 7
11	20.66	+ 9	47.63	+ 4	65.17	+34	45.06	+ 3	50.83	+ 9	48.18	− 3
12	20.42	+ 7	47.45	+ 8	64.19	+28	44.92	+ 7	50.58	+10	48.25	+ 1
13	20.19	+ 4	47.26	+10	63.23	+15	44.78	+10	50.34	+ 9	48.32	+ 5
14	19.96	0	47.07	+10	62.28	+ 2	44.63	+10	50.09	+ 7	48.38	+ 8
15	19.74	− 3	46.87	+ 9	61.34	−11	44.48	+ 9	49.84	+ 3	48.43	+ 9
16	19.51	− 6	46.67	+ 6	60.40	−21	44.32	+ 7	49.59	0	48.48	+ 9
17	19.30	− 7	46.46	+ 2	59.48	−26	44.15	+ 3	49.34	− 3	48.52	+ 7
18	19.08	− 7	46.25	− 2	58.58	−25	43.98	− 1	49.08	− 5	48.56	+ 4
19	18.87	− 6	46.03	− 5	57.68	−21	43.80	− 4	48.83	− 7	48.59	+ 1
20	18.66	− 4	45.81	− 7	56.79	−14	43.62	− 7	48.58	− 7	48.61	− 3
21	18.46	− 1	45.58	− 8	55.92	− 5	43.43	− 8	48.32	− 6	48.63	− 6
22	18.26	+ 2	45.35	− 8	55.06	+ 5	43.24	− 9	48.07	− 4	48.64	− 8
23	18.07	+ 4	45.12	− 7	54.22	+14	43.04	− 8	47.81	− 2	48.64	− 9
24	17.88	+ 6	44.88	− 5	53.39	+21	42.84	− 6	47.56	+ 1	48.64	− 8
25	17.70	+ 7	44.64	− 2	52.57	+23	42.63	− 3	47.30	+ 3	48.63	− 6
26	17.52	+ 6	44.39	+ 1	51.77	+21	42.42	+ 1	47.05	+ 5	48.62	− 3
27	17.34	+ 4	44.14	+ 4	50.98	+14	42.20	+ 4	46.79	+ 5	48.60	+ 1
28	17.17	0	43.88	+ 6	50.21	+ 2	41.98	+ 6	46.54	+ 4	48.57	+ 4
März 1	17.00	− 3	43.62	+ 6	49.45	−11	41.75	+ 6	46.28	+ 2	48.54	+ 7
2	16.84	− 6	43.35	+ 4	48.71	−23	41.52	+ 5	46.03	− 2	48.50	+ 8
3	16.68	− 8	43.09	+ 1	47.98	−30	41.28	+ 2	45.77	− 5	48.45	+ 7
4	16.53	− 8	42.81	− 3	47.27	−30	41.04	− 1	45.52	− 7	48.40	+ 4
5	16.38	− 6	42.54	− 6	46.58	−23	40.80	− 5	45.27	− 8	48.34	0
6	16.24	− 3	42.26	− 7	45.90	−11	40.55	− 7	45.02	− 6	48.28	− 4
7	16.10	+ 2	41.98	− 7	45.24	+ 6	40.30	− 7	44.77	− 3	48.21	− 7
8	15.97	+ 6	41.70	− 5	44.59	+21	40.04	− 6	44.52	+ 1	48.13	− 8
9	15.84	+ 9	41.42	− 1	43.96	+31	39.78	− 2	44.27	+ 5	48.05	− 7
10	15.72	+10	41.13	+ 3	43.35	+35	39.52	+ 2	44.03	+ 8	47.96	− 5
11	15.60	+ 9	40.84	+ 7	42.76	+31	39.25	+ 6	43.78	+10	47.87	− 1
12	15.49	+ 6	40.55	+10	42.19	+21	38.98	+ 9	43.54	+10	47.77	+ 4
13	15.38	+ 2	40.25	+11	41.63	+ 8	38.71	+10	43.29	+ 8	47.66	+ 7
14	15.28	− 2	39.96	+10	41.10	− 6	38.43	+10	43.05	+ 5	47.55	+ 9
15	15.19	− 5	39.66	+ 7	40.58	−17	38.15	+ 8	42.81	+ 1	47.43	+ 9
sec δ, tg δ	85° 49′ 40″		13.745	+13.708	88° 52′ 40″		51.059	+51.049	85° 20′ 40″		12.321	+12.280
	50		13.754	+13.718	50		51.186	+51.176	50		12.328	+12.287

1919	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 3^m$ s	in 0.01 s	+87° 10′ ″	in 0.01 ″	$9^h 25^m$ s	in 0.01 s	+81° 40′ ″	in 0.01 ″	$16^h 54^m$ s	in 0.01 s	+82° 10′ ″	in 0.01 ″
Febr. 6	37.99	−11	47.26	+ 4	51.05	− 3	58.04	+ 7	5.22	+ 2	4.20	+ 2
7	37.80	−12	47.54	− 1	51.09	− 4	58.34	+ 3	5.36	+ 1	4.03	+ 6
8	37.61	− 9	47.82	− 5	51.11	− 4	58.64	− 1	5.50	0	3.86	+ 8
9	37.41	− 5	48.09	− 8	51.14	− 3	58.94	− 5	5.65	− 2	3.70	+ 9
10	37.20	+ 2	48.36	−10	51.16	− 1	59.24	− 9	5.80	− 3	3.55	+ 7
11	36.99	+ 8	48.63	− 9	51.18	+ 1	59.54	−10	5.95	− 3	3.40	+ 3
12	36.76	+13	48.89	− 6	51.19	+ 3	59.84	−10	6.09	− 4	3.25	− 1
13	36.53	+15	49.15	− 2	51.20	+ 5	60.15	− 7	6.24	− 3	3.12	− 5
14	36.29	+15	49.41	+ 2	51.21	+ 6	60.45	− 4	6.40	− 2	2.99	− 8
15	36.05	+12	49.66	+ 5	51.22	+ 5	60.75	0	6.55	− 1	2.86	− 9
16	35.79	+ 7	49.91	+ 7	51.22	+ 4	61.05	+ 3	6.70	+ 1	2.74	− 8
17	35.53	+ 2	50.16	+ 8	51.23	+ 2	61.36	+ 5	6.86	+ 2	2.63	− 6
18	35.27	− 4	50.40	+ 7	51.22	0	61.66	+ 7	7.01	+ 2	2.52	− 3
19	34.99	− 8	50.64	+ 5	51.22	− 2	61.96	+ 7	7.17	+ 2	2.42	0
20	34.71	−11	50.87	+ 2	51.21	− 3	62.26	+ 6	7.33	+ 2	2.33	+ 3
21	34.42	−13	51.10	− 1	51.19	− 4	62.57	+ 4	7.49	+ 2	2.24	+ 6
22	34.12	−12	51.32	− 3	51.18	− 5	62.87	+ 2	7.65	+ 1	2.16	+ 8
23	33.82	−10	51.54	− 6	51.16	− 5	63.17	− 1	7.81	0	2.09	+ 9
24	33.52	− 6	51.76	− 7	51.13	− 4	63.47	− 3	7.97	− 1	2.02	+ 8
25	33.21	− 2	51.97	− 7	51.11	− 2	63.77	− 5	8.13	− 1	1.96	+ 5
26	32.89	+ 3	52.18	− 5	51.08	0	64.06	− 5	8.29	− 2	1.91	+ 2
27	32.57	+ 7	52.38	− 3	51.05	+ 2	64.36	− 5	8.45	− 2	1.86	− 2
28	32.24	+ 9	52.58	+ 1	51.02	+ 3	64.66	− 2	8.61	− 1	1.82	− 6
März 1	31.90	+ 8	52.77	+ 5	50.98	+ 4	64.95	+ 1	8.77	0	1.79	− 8
2	31.56	+ 5	52.96	+ 8	50.94	+ 4	65.24	+ 5	8.93	+ 1	1.76	− 8
3	31.21	0	53.14	+ 9	50.90	+ 2	65.53	+ 7	9.09	+ 2	1.74	− 7
4	30.86	− 5	53.32	+ 8	50.85	0	65.82	+ 8	9.25	+ 3	1.73	− 4
5	30.50	− 9	53.49	+ 5	50.80	− 2	66.11	+ 7	9.41	+ 3	1.72	0
6	30.14	−11	53.65	+ 1	50.75	− 4	66.39	+ 5	9.57	+ 2	1.72	+ 5
7	29.77	−10	53.82	− 4	50.70	− 4	66.68	0	9.73	0	1.72	+ 8
8	29.40	− 6	53.97	− 7	50.64	− 4	66.96	− 4	9.89	− 1	1.73	+ 9
9	29.03	0	54.12	− 9	50.59	− 2	67.24	− 8	10.05	− 2	1.75	+ 7
10	28.65	+ 6	54.27	− 9	50.52	0	67.51	−10	10.22	− 3	1.78	+ 5
11	28.27	+12	54.41	− 7	50.46	+ 3	67.79	−10	10.38	− 4	1.81	+ 1
12	27.88	+15	54.54	− 4	50.39	+ 5	68.06	− 9	10.54	− 3	1.85	− 4
13	27.49	+16	54.67	0	50.32	+ 6	68.33	− 6	10.70	− 2	1.89	− 7
14	27.10	+13	54.80	+ 4	50.25	+ 6	68.60	− 2	10.86	− 1	1.95	− 9
15	26.70	+ 9	54.91	+ 7	50.17	+ 5	68.86	+ 2	11.02	0	2.01	− 9
sec δ, tg δ	87° 10′ 50″		20.330	+20.305	81° 40′ 60″		6.914	+6.841	82° 10′ 0″		7.337	+7.269
	60		20.350	+20.325	70		6.916	+6.843	10		7.340	+7.271

1919	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 57^m$	in ^{s} 0.01	+86° 36′	in $''$ 0.01	$18^h 58^m$	in ^{s} 0.01	+89° 1′	in $''$ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 13′	in $''$ 0.01
Febr. 6	58.01	+ 8	40.02	0	39.97	+29	8.27	− 1	21.72	+ 2	63.45	− 4
7	58.27	+ 6	39.78	+ 5	40.57	+27	7.99	+ 3	21.73	+ 3	63.12	0
8	58.53	+ 3	39.55	+ 8	41.19	+19	7.71	+ 7	21.74	+ 3	62.79	+ 4
9	58.79	− 1	39.32	+ 9	41.83	+ 5	7.44	+ 9	21.76	+ 3	62.46	+ 8
10	59.06	− 5	39.10	+ 8	42.49	−11	7.17	+ 9	21.78	+ 2	62.13	+10
11	59.34	− 8	38.88	+ 6	43.17	−26	6.90	+ 8	21.81	0	61.81	+10
12	59.62	−10	38.67	+ 2	43.88	−35	6.63	+ 4	21.83	− 2	61.49	+ 8
13	59.90	−10	38.46	− 3	44.60	−39	6.37	0	21.86	− 3	61.16	+ 4
14	60.19	− 8	38.26	− 6	45.34	−35	6.11	− 4	21.90	− 4	60.84	0
15	60.48	− 5	38.06	− 8	46.10	−25	5.86	− 6	21.93	− 4	60.52	− 3
16	60.78	− 1	37.87	− 8	46.89	−13	5.61	− 8	21.97	− 3	60.20	− 6
17	61.08	+ 2	37.69	− 7	47.69	+ 1	5.37	− 8	22.01	− 2	59.88	− 7
18	61.39	+ 5	37.51	− 5	48.52	+14	5.13	− 6	22.05	0	59.57	− 7
19	61.70	+ 7	37.33	− 2	49.36	+24	4.89	− 4	22.10	+ 1	59.25	− 6
20	62.02	+ 8	37.16	+ 1	50.22	+30	4.66	− 1	22.15	+ 2	58.94	− 4
21	62.34	+ 7	37.00	+ 4	51.10	+32	4.43	+ 2	22.21	+ 3	58.63	− 2
22	62.66	+ 6	36.84	+ 6	52.00	+29	4.21	+ 5	22.26	+ 3	58.32	+ 1
23	62.98	+ 4	36.69	+ 8	52.91	+21	3.99	+ 7	22.32	+ 3	58.01	+ 3
24	63.31	+ 1	36.54	+ 8	53.84	+11	3.78	+ 7	22.39	+ 3	57.71	+ 5
25	63.64	− 2	36.40	+ 6	54.79	− 1	3.57	+ 6	22.45	+ 2	57.41	+ 6
26	63.97	− 4	36.27	+ 3	55.75	−13	3.37	+ 4	22.52	0	57.11	+ 5
27	64.31	− 5	36.14	0	56.73	−20	3.17	+ 1	22.59	− 1	56.82	+ 3
28	64.65	− 5	36.02	− 4	57.72	−22	2.98	− 3	22.66	− 3	56.53	0
März 1	64.99	− 3	35.90	− 7	58.73	−18	2.79	− 6	22.74	− 3	56.24	− 4
2	65.33	0	35.79	− 9	59.76	− 8	2.61	− 9	22.82	− 3	55.96	− 7
3	65.68	+ 3	35.69	− 8	60.79	+ 5	2.43	− 9	22.90	− 2	55.67	− 8
4	66.03	+ 6	35.60	− 5	61.84	+17	2.26	− 7	22.99	0	55.40	− 8
5	66.38	+ 7	35.51	− 1	62.91	+25	2.09	− 3	23.08	+ 1	55.12	− 6
6	66.73	+ 6	35.42	+ 3	63.98	+27	1.93	+ 1	23.17	+ 2	54.85	− 2
7	67.08	+ 4	35.34	+ 7	65.07	+21	1.77	+ 6	23.26	+ 3	54.58	+ 3
8	67.43	0	35.27	+ 9	66.17	+ 9	1.62	+ 9	23.36	+ 3	54.32	+ 7
9	67.79	− 4	35.20	+ 9	67.29	− 7	1.48	+10	23.45	+ 2	54.06	+10
10	68.15	− 8	35.14	+ 7	68.41	−22	1.34	+ 9	23.56	0	53.80	+10
11	68.51	−10	35.09	+ 3	69.54	−33	1.21	+ 6	23.66	− 1	53.55	+ 9
12	68.87	−10	35.05	− 1	70.68	−39	1.08	+ 2	23.77	− 3	53.30	+ 6
13	69.24	− 9	35.01	− 5	71.83	−38	0.96	− 2	23.87	− 3	53.06	+ 2
14	69.60	− 6	34.97	− 7	72.99	−30	0.84	− 5	23.99	− 4	52.83	− 2
15	69.97	− 3	34.95	− 8	74.17	−18	0.73	− 7	24.10	− 3	52.59	− 5
sec δ, tg δ	86° 36′ 30″	16.903	+16.873		89° 1′ 0″	58.270	+58.261		82° 13′ 50″	7.397	+7.329	
	40	16.917	+16.887		10	58.435	+58.426		60	7.400	+7.332	

1919	43 Hev. Cephei 4ᵐ.3				α Ursae minoris 2ᵐ.0				Gr. 750 6ᵐ.8			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in s 0.01	+85° 49′	in ″ 0.01	$1^h 30^m$	in s 0.01	+88° 52′	in ″ 0.01	$4^h 10^m$	in s 0.01	+85° 20′	in ″ 0.01
März 15	15.19	− 5	39.66	+ 7	40.58	−17	38.15	+ 8	42.81	+ 1	47.43	+ 9
16	15.10	− 7	39.36	+ 4	40.09	−24	37.86	+ 5	42.58	− 2	47.31	+ 8
17	15.01	− 7	39.06	0	39.61	−26	37.57	+ 1	42.34	− 5	47.18	+ 5
18	14.93	− 6	38.75	− 3	39.15	−23	37.29	− 3	42.11	− 6	47.05	+ 2
19	14.86	− 5	38.45	− 6	38.71	−17	37.00	− 6	41.88	− 7	46.91	− 2
20	14.79	− 2	38.14	− 8	38.29	− 8	36.70	− 8	41.65	− 6	46.77	− 5
21	14.72	0	37.83	− 8	37.89	+ 1	36.41	− 8	41.42	− 5	46.62	− 7
22	14.66	+ 3	37.52	− 8	37.51	+11	36.11	− 8	41.20	− 3	46.47	− 9
23	14.61	+ 5	37.20	− 6	37.15	+18	35.81	− 7	40.98	0	46.31	− 9
24	14.56	+ 6	36.89	− 3	36.82	+22	35.51	− 4	40.76	+ 2	46.14	− 7
25	14.52	+ 6	36.58	0	36.50	+22	35.21	− 1	40.55	+ 4	45.97	− 4
26	14.49	+ 4	36.26	+ 3	36.20	+16	34.90	+ 2	40.34	+ 4	45.80	− 1
27	14.46	+ 2	35.95	+ 5	35.92	+ 7	34.59	+ 5	40.13	+ 4	45.62	+ 3
28	14.43	− 2	35.64	+ 5	35.67	− 7	34.28	+ 6	39.92	+ 2	45.43	+ 6
29	14.42	− 5	35.32	+ 4	35.43	−19	33.97	+ 5	39.72	− 1	45.24	+ 8
30	14.41	− 8	35.01	+ 2	35.22	−28	33.66	+ 3	39.52	− 4	45.05	+ 7
31	14.40	− 9	34.69	− 2	35.02	−31	33.35	0	39.32	− 7	44.85	+ 5
April 1	14.40	− 8	34.38	− 5	34.85	−28	33.04	− 4	39.13	− 8	44.65	+ 2
2	14.40	− 4	34.06	− 7	34.69	−16	32.72	− 6	38.94	− 7	44.44	− 2
3	14.41	0	33.75	− 8	34.56	− 1	32.41	− 8	38.75	− 5	44.22	− 6
4	14.43	+ 4	33.43	− 6	34.44	+15	32.09	− 7	38.57	− 1	44.01	− 8
5	14.45	+ 8	33.12	− 3	34.35	+28	31.78	− 4	38.39	+ 3	43.78	− 8
6	14.47 14.51	+10 + 9	32.81 32.50	+ 2 + 6	34.28	+35	31.46	+ 1	38.22	+ 8	43.56	− 6
7	14.54	+ 7	32.18	+ 9	34.23	+34	31.15	+ 5	38.04	+10	43.33	− 2
8	14.59	+ 4	31.87	+11	34.20	+26	30.83	+ 8	37.88	+11	43.09	+ 2
9	14.64	0	31.56	+11	34.19	+14	30.52	+11	37.71	+ 9	42.85	+ 6
10	14.70	− 4	31.25	+ 9	34.21	0	30.20	+11	37.55	+ 7	42.61	+ 8
11	14.76	− 6	30.94	+ 6	34.25	−12	29.89	+ 9	37.39	+ 3	42.36	+10
12	14.83	− 7	30.64	+ 2	34.31	−22	29.57	+ 7	37.24	− 1	42.12	+ 9
13	14.90	− 6	30.33	− 2	34.38	−25	29.26	+ 3	37.09	− 3	41.86	+ 7
14	14.98	− 5	30.03	− 5	34.48	−24	28.94	− 1	36.95	− 5	41.61	+ 3
15	15.06	− 3	29.73	− 7	34.60 34.74	− 19 − 11	28.62 28.31	− 4 − 7	36.81	− 7	41.35	0
16	15.15	0	29.43	− 8	34.90	− 1	28.00	− 8	36.68	− 6	41.09	− 3
17	15.25	+ 2	29.14	− 8	35.08	+ 8	27.69	− 8	36.55	− 5	40.83	− 6
18	15.35	+ 5	28.84	− 7	35.28	+17	27.38	− 7	36.42	− 3	40.57	− 8
19	15.45	+ 6	28.55	− 4	35.50	+21	27.07	− 5	36.30	− 1	40.30	− 9
20	15.56	+ 6	28.26	− 1	35.74	+22	26.76	− 2	36.18	+ 1	40.03	− 8
21	15.68	+ 5	27.97	+ 1	36.00	+19	26.45	+ 1	36.07	+ 3	39.75	− 6
sec δ, tg δ	85° 49′ 30″		13.736	+13.699	88° 52′ 30″		50.933	+50.923	85° 20′ 40″		12.321	+12.280
	40		13.745	+13.708	40		51.059	+51.049	50		12.328	+12.287

1919	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 3^m$	in s 0.01	+87° 10′	in ″ 0.01	$9^h 25^m$	in s 0.01	+81° 41′	in ″ 0.01	$16^h 54^m$	in s 0.01	+82° 10′	in ″ 0.01
März 15	26.70	+ 9	54.91	+ 7	50.17	+ 5	8.86	+ 2	11.02	0	2.01	− 9
16	26.30	+ 4	55.02	+ 8	50.09	+ 3	9.12	+ 5	11.17	+ 1	2.07	− 7
17	25.90	− 1	55.13	+ 7	50.01	+ 1	9.38	+ 7	11.33	+ 2	2.14	− 5
18	25.49	− 6	55.23	+ 6	49.93	− 1	9.63	+ 7	11.49	+ 2	2.22	− 1
19	25.08	−10	55.32	+ 4	49.85	− 3	9.88	+ 6	11.65	+ 2	2.31	+ 2
20	24.67	−12	55.41	0	49.77	− 4	10.13	+ 5	11.80	+ 2	2.40	+ 5
21	24.26	−12	55.49	− 3	49.68	− 5	10.37	+ 3	11.96	+ 1	2.50	+ 7
22	23.84	−11	55.56	− 5	49.59	− 5	10.61	0	12.11	+ 1	2.60	+ 7
23	23.43	− 8	55.63	− 6	49.50	− 4	10.85	− 2	12.26	0	2.71	+ 8
24	23.01	− 4	55.70	− 7	49.40	− 3	11.08	− 4	12.42	− 1	2.83	+ 7
25	22.59	+ 1	55.75	− 6	49.31	− 1	11.31	− 5	12.57	− 1	2.95	+ 4
26	22.17	+ 5	55.80	− 3	49.21	+ 1	11.53	− 5	12.71	− 2	3.08	0
27	21.75	+ 7	55.85	0	49.11	+ 3	11.75	− 3	12.86	− 1	3.21	− 4
28	21.32	+ 8	55.89	+ 4	49.01	+ 4	11.96	0	13.01	0	3.35	− 7
29	20.90	+ 5	55.92	+ 7	48.90	+ 4	12.17	+ 4	13.15	+ 1	3.49	− 8
30	20.48	+ 1	55.95	+ 9	48.80	+ 3	12.38	+ 7	13.30	+ 2	3.64	− 8
31	20.05	− 4	55.97	+ 9	48.69	+ 1	12.58	+ 8	13.44	+ 3	3.80	− 5
April 1	19.62	− 8	55.98	+ 7	48.58	− 1	12.78	+ 8	13.58	+ 3	3.96	− 1
2	19.20	−11	55.99	+ 3	48.47	− 3	12.97	+ 6	13.72	+ 2	4.13	+ 3
3	18.77	−11	56.00	− 2	48.36	− 4	13.16	+ 2	13.86	+ 1	4.30	+ 7
4	18.35	− 7	55.99	− 6	48.24	− 4	13.35	− 2	13.99	− 1	4.48	+ 8
5	17.93	− 2	55.98	− 9	48.12	− 3	13.52	− 7	14.12	− 2	4.67	+ 8
6	17.50	+ 4	55.97	−10	48.00	− 1	13.70	−10	14.25	− 3	4.85	+ 6
7	17.08	+10	55.95	− 8	47.88	+ 2	13.87	−11	14.38	− 4	5.05	+ 2
8	16.66	+15	55.92	− 5	47.76	+ 4	14.03	−10	14.51	− 4	5.25	− 2
9	16.23	+17	55.89	− 1	47.64	+ 5	14.19	− 7	14.64	− 3	5.45	− 6
10	15.81	+15	55.85	+ 3	47.51	+ 6	14.34	− 4	14.76	− 2	5.66	− 8
11	15.39	+12	55.81	+ 6	47.39	+ 5	14.49	0	14.88	0	5.88	− 9
12	14.97	+ 7	55.76	+ 7	47.26	+ 4	14.63	+ 3	15.00	+ 1	6.10	− 8
13	14.56	+ 1	55.70	+ 8	47.13	+ 2	14.77	+ 6	15.12	+ 2	6.32	− 6
14	14.14	− 4	55.64	+ 6	47.01	0	14.90	+ 7	15.24	+ 2	6.55	− 3
15	13.73	− 8	55.57	+ 4	46.88	− 2	15.02	+ 6	15.35	+ 2	6.78	+ 1
16	13.32	−11	55.49	+ 1	46.75	− 4	15.15	+ 5	15.47	+ 2	7.02	+ 4
17	12.91	−12	55.41	− 1	46.62	− 5	15.26	+ 3	15.58	+ 1	7.26	+ 6
18	12.51	−11	55.33	− 4	46.49	− 5	15.37	+ 1	15.69	+ 1	7.51	+ 8
19	12.10	− 9	55.24	− 6	46.35	− 4	15.48	− 2	15.79	0	7.76	+ 9
20	11.70	− 5	55.14	− 7	46.22	− 3	15.58	− 4	15.90	− 1	8.01	+ 7
21	11.30	− 1	55.03	− 7	46.09	− 2	15.68	− 5	16.00	− 1	8.27	+ 5
sec δ, tg δ	87° 10′ 50″	20.330	+20.305		81° 41′ 10″	6.916	+6.843		82° 10′ 0″	7.337	+7.269	
	60	20.350	+20.325		20	6.918	+6.845		10	7.340	+7.271	

1919	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 58^m$ s	in s 0.01	+86° 36′ "	in " 0.01	$18^h 59^m$ s	in s 0.01	+89° 0′ "	in " 0.01	$20^h 48^m$ s	in s 0.01	+82° 13′ "	in " 0.01
März 15	9.97	− 3	34.95	− 8	14.17	−18	60.73	− 7	24.10	− 3	52.59	− 5
16	10.33	+ 1	34.93	− 8	15.34	− 4	60.63	− 8	24.21	− 2	52.37	− 6
17	10.70	+ 4	34.91	− 6	16.52	+ 9	60.53	− 7	24.33	− 1	52.14	− 7
18	11.06	+ 6	34.90	− 3	17.71	+20	60.44	− 5	24.45	0	51.92	− 6
19	11.43	+ 7	34.90	0	18.91	+28	60.35	− 2	24.56	+ 2	51.71	− 5
20	11.79	+ 8	34.90	+ 3	20.12	+31	60.27	+ 1	24.69	+ 3	51.50	− 3
21	12.16	+ 7	34.91	+ 6	21.33	+30	60.20	+ 4	24.81	+ 3	51.29	0
22	12.52	+ 5	34.93	+ 7	22.55	+25	60.13	+ 6	24.94	+ 3	51.09	+ 2
23	12.89	+ 2	34.95	+ 8	23.77	+16	60.07	+ 7	25.06	+ 3	50.90	+ 5
24	13.25	− 1	34.99	+ 7	24.99	+ 5	60.02	+ 7	25.20	+ 2	50.71	+ 6
25	13.61	− 3	35.02	+ 4	26.22	− 6	59.97	+ 5	25.33	+ 1	50.52	+ 5
26	13.97	− 4	35.07	+ 1	27.45	−15	59.93	+ 2	25.46	− 1	50.35	+ 4
27	14.33	− 4	35.12	− 3	28.68	−19	59.89	− 2	25.60	− 2	50.17	+ 1
28	14.69	− 3	35.17	− 6	29.92	−18	59.86	− 5	25.74	− 3	50.00	− 3
29	15.05	0	35.23	− 8	31.16	−10	59.84	− 8	25.87	− 3	49.84	− 6
30	15.40	+ 3	35.30	− 9	32.40	+ 2	59.82	− 9	26.02	− 2	49.68	− 8
31	15.76	+ 6	35.37	− 7	33.64	+14	59.81	− 8	26.16	− 1	49.53	− 9
April 1	16.11	+ 7	35.45	− 3	34.88	+24	59.80	− 5	26.31	+ 1	49.39	− 7
2	16.46	+ 7	35.53	+ 1	36.12	+28	59.80	0	26.45	+ 2	49.25	− 3
3	16.81	+ 5	35.63	+ 5	37.36	+24	59.81	+ 4	26.60	+ 3	49.11	+ 1
4	17.16	+ 2	35.72	+ 8	38.60	+14	59.82	+ 8	26.75	+ 3	48.99	+ 6
5	17.50	− 3	35.83	+ 9	39.84	− 2	59.84	+10	26.90	+ 2	48.87	+ 9
6	17.85	− 7	35.94	+ 8	41.08	−18	59.87	+ 9	27.05	+ 1	48.75	+11
7	18.19	−10	36.05	+ 5	42.31	−32	59.90	+ 7	27.20	− 1	48.64	+10
8	18.53	−11	36.17	+ 1	43.54	−40	59.94	+ 3	27.36	− 2	48.54	+ 8
9	18.86	−10	36.30	− 3	44.77	−41	59.98	− 1	27.51	− 3	48.44	+ 4
10	19.20	− 8	36.43	− 6	46.00	−35	60.03	− 4	27.66	− 4	48.35	0
11	19.53	− 4	36.57	− 8	47.22	−25	60.09	− 7	27.82	− 4	48.27	− 3
12	19.86	− 1	36.72	− 8	48.43	−11	60.15	− 8	27.98	− 3	48.19	− 6
13	20.18	+ 3	36.87	− 7	49.64	+ 3	60.22	− 7	28.13	− 2	48.12	− 7
14	20.50	+ 5	37.02	− 4	50.84	+15	60.29	− 5	28.29	0	48.05	− 7
15	20.81	+ 7	37.18	− 1	52.04	+24	60.37	− 3	28.45	+ 1	47.99	− 5
16	21.12	+ 7	37.35	+ 2	53.23	+29	60.46	0	28.61	+ 2	47.94	− 3
17	21.43	+ 7	37.52	+ 5	54.41	+29	60.55	+ 3	28.77	+ 3	47.89	− 1
18	21.74	+ 5	37.69	+ 7	55.59	+26	60.65	+ 5	28.93	+ 3	47.85	+ 2
19	22.04	+ 3	37.87	+ 8	56.77	+19	60.75	+ 7	29.09	+ 3	47.81	+ 4
20	22.34	0	38.06	+ 7	57.93	+ 9	60.86	+ 7	29.25	+ 2	47.78	+ 5
21	22.63	− 2	38.25	+ 6	59.08	− 2	60.97	+ 6	29.41	+ 1	47.76	+ 6
sec δ, tg δ	86° 36′ 30″		16.903	+16.873	89° 0′ 60″		58.270	+58.261	82° 13′ 40″		7.395	+7.327
	40		16.917	+16.887	70		58.435	+58.426	50		7.397	+7.329

1919	43 Hev. Cephei 4ᵐ.3				α Ursae minoris 2ᵐ.0				Gr. 750 6ᵐ.8			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in ˢ 0.01	+85° 49′	in ″ 0.01	$1^h 30^m$	in ˢ 0.01	+88° 52′	in ″ 0.01	$4^h 10^m$	in ˢ 0.01	+85° 20′	in ″ 0.01
April 21	15.68	+ 5	27.97	+ 1	36.00	+19	26.45	+ 1	36.07	+ 3	39.75	− 6
22	15.80	+ 3	27.69	+ 4	36.29	+10	26.15	+ 3	35.96	+ 4	39.48	− 2
23	15.92	− 1	27.41	+ 5	36.59	− 2	25.84	+ 5	35.86	+ 4	39.19	+ 1
24	16.05	− 4	27.13	+ 4	36.91	−14	25.54	+ 5	35.76	+ 2	38.91	+ 5
25	16.19	− 7	26.86	+ 2	37.25	−26	25.24	+ 3	35.67	0	38.63	+ 7
26	16.33	− 9	26.58	− 1	37.61	−32	24.95	0	35.58	− 3	38.34	+ 7
27	16.47	− 9	26.31	− 4	37.98	−31	24.65	− 3	35.49	− 6	38.05	+ 6
28	16.62	− 6	26.04	− 7	38.38	−23	24.36	− 6	35.41	− 8	37.77	+ 3
29	16.78	− 2	25.78	− 8	38.80	− 9	24.07	− 8	35.33	− 8	37.47	− 1
30	16.94	+ 2	25.52	− 7	39.24	+ 7	23.78	− 8	35.26	− 6	37.18	− 5
Mai 1	17.11	+ 6	25.26	− 4	39.69	+22	23.50	− 5	35.19	− 3	36.88	− 8
2	17.28	+ 9	25.01	0	40.16	+32	23.22	− 1	35.13	+ 1	36.59	− 8
3	17.45	+10	24.76	+ 4	40.65	+35	22.94	+ 3	35.08	+ 6	36.29	− 7
4	17.63	+ 8	24.51	+ 8	41.16	+30	22.66	+ 7	35.03	+ 9	35.99	− 4
5	17.81	+ 5	24.27	+11	41.69	+20	22.38	+10	34.98	+11	35.69	+ 1
6	18.00	+ 1	24.03	+11	42.23	+ 7	22.11	+11	34.94	+10	35.39	+ 5
7	18.19	− 2	23.79	+10	42.79	− 7	21.84	+10	34.91	+ 8	35.09	+ 8
8	18.39	− 5	23.56	+ 7	43.37	−17	21.58	+ 8	34.88	+ 5	34.79	+ 9
9	18.59	− 7	23.33	+ 4	43.97	−24	21.32	+ 5	34.85	+ 1	34.48	+ 9
10	18.80	− 7	23.11	0	44.59	−24	21.06	+ 1	34.83	− 2	34.18	+ 8
11	19.00	− 6	22.89	− 3	45.22	−21	20.81	− 3	34.81	− 4	33.87	+ 5
12	19.22	− 4	22.68	− 6	45.87	−14	20.56	− 6	34.80	− 6	33.57	+ 1
13	19.43	− 1	22.47	− 7	46.54	− 4	20.31	− 7	34.80	− 6	33.26	− 2
14	19.65	+ 2	22.26	− 7	47.22	+ 5	20.07	− 8	34.80	− 5	32.96	− 5
15	19.87	+ 4	22.06	− 7	47.92	+14	19.83	− 7	34.80	− 4	32.65	− 7
16	20.10	+ 6	21.86	− 5	48.63	+20	19.59	− 6	34.81	− 2	32.35	− 9
17	20.33	+ 6	21.67	− 2	49.35	+23	19.36	− 3	34.83	+ 1	32.04	− 8
18	20.57	+ 6	21.48	+ 1	50.09	+21	19.13	0	34.85	+ 3	31.74	− 6
19	20.81	+ 4	21.30	+ 3	50.84	+14	18.91	+ 3	34.87	+ 4	31.43	− 4
20	21.05	+ 1	21.12	+ 5	51.61	+ 4	18.69	+ 5	34.90	+ 5	31.13	0
21	21.30	− 3	20.95	+ 5	52.39	−10	18.47	+ 5	34.93	+ 3	30.83	+ 3
22	21.55	− 6	20.78	+ 3	53.19	−22	18.26	+ 4	34.97	+ 1	30.52	+ 6
23	21.80	− 9	20.61	0	54.00	−31	18.05	+ 1	35.01	− 2	30.22	+ 7
24	22.06	− 9	20.46	− 3	54.83	−33	17.85	− 2	35.06	− 5	29.92	+ 6
25	22.31	− 8	20.30	− 7	55.67	−28	17.65	− 6	{35.11 35.17	− 8 − 9	29.62 29.32	+ 4 0
26	22.57	− 4	20.15	− 8	56.52	−16	17.46	− 8	35.23	− 8	29.02	− 4
27	22.84	0	20.01	− 9	57.39	− 1	17.27	− 9	35.30	− 5	28.72	− 7
28	23.10	+ 4	19.87	− 7	58.26	+15	17.08	− 7	35.37	− 1	28.43	− 8
sec δ, tg δ	85° 49′ 20″	13.727	+13.690		88° 52′ 20″	50.807	+50.798		85° 20′ 30″	12.313	+12.273	
	30	13.736	+13.699		30	50.933	+50.923		40	12.321	+12.280	

1919	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 2^m$ s	in s 0.01	+87° 10′ ″	in ″ 0.01	$9^h 25^m$ s	in s 0.01	+81° 41′ ″	in ″ 0.01	$16^h 54^m$ s	in s 0.01	+82° 10′ ″	in ″ 0.01
April 21	71.30	− 1	55.03	− 7	46.09	− 2	15.68	− 5	16.00	− 1	8.27	+ 5
22	70.91	+ 3	54.92	− 5	45.95	0	15.77	− 5	16.10	− 2	8.53	+ 2
23	70.51	+ 6	54.81	− 2	45.82	+ 2	15.85	− 3	16.20	− 1	8.80	− 2
24	70.13	+ 7	54.69	+ 2	45.68	+ 3	15.93	− 1	16.29	0	9.06	− 6
25	69.74	+ 6	54.56	+ 6	45.54	+ 3	16.00	+ 3	16.38	+ 1	9.34	− 7
26	69.36	+ 2	54.43	+ 8	45.41	+ 3	16.07	+ 6	16.47	+ 2	9.61	− 8
27	68.98	− 3	54.30	+ 9	45.27	+ 1	16.13	+ 8	16.56	+ 3	9.89	− 6
28	68.61	− 7	54.16	+ 8	45.13	− 1	16.19	+ 9	16.64	+ 3	10.17	− 3
29	68.24	−11	54.01	+ 5	45.00	− 3	16.24	+ 8	16.72	+ 3	10.46	+ 1
30	67.87	−12	53.86	0	44.86	− 4	16.28	+ 5	16.80	+ 2	10.75	+ 5
Mai 1	67.51	−10	53.70	− 4	44.73	− 4	16.32	0	16.88	0	11.04	+ 8
2	67.15	− 5	53.54	− 8	44.59	− 3	16.35	− 5	16.95	− 1	11.33	+ 8
3	66.80	+ 1	53.37	−10	44.46	− 1	16.38	− 8	17.03	− 3	11.63	+ 7
4	66.45	+ 8	53.20	− 9	44.32	+ 1	16.40	−10	17.10	− 4	11.93	+ 4
5	66.11	+14	53.02	− 7	44.19	+ 3	16.41	−11	17.16	− 4	12.23	− 1
6	65.77	+17	52.84	− 3	44.05	+ 5	16.42	− 9	17.23	− 3	12.54	− 5
7	65.44	+17	52.65	+ 1	43.91	+ 6	16.43	− 6	17.29	− 2	12.84	− 8
8	65.12	+14	52.46	+ 4	43.77	+ 6	16.42	− 2	17.35	− 1	13.15	− 9
9	64.80	+10	52.27	+ 7	43.63	+ 5	16.41	+ 2	17.41	0	13.46	− 9
10	64.48	+ 4	52.07	+ 7	43.49	+ 3	16.40	+ 5	17.46	+ 1	13.78	− 7
11	64.17	− 1	51.86	+ 7	43.35	+ 1	16.38	+ 6	17.51	+ 2	14.10	− 4
12	63.86	− 6	51.65	+ 5	43.22	− 1	16.35	+ 7	17.56	+ 2	14.42	− 1
13	63.56	− 9	51.44	+ 2	43.08	− 3	16.32	+ 5	17.60	+ 2	14.73	+ 3
14	63.27	−11	51.22	− 1	42.95	− 4	16.29	+ 4	17.64	+ 2	15.05	+ 6
15	62.98	−11	51.00	− 3	42.82	− 5	16.24	+ 1	17.68	+ 1	15.38	+ 7
16	62.70	− 9	50.77	− 6	42.68	− 5	16.20	− 1	17.71	0	15.70	+ 8
17	62.42	− 6	50.55	− 7	42.55	− 4	16.15	− 3	17.75	− 1	16.02	+ 8
18	62.15	− 2	50.31	− 7	42.42	− 2	16.09	− 5	17.78	− 1	16.35	+ 6
19	61.89	+ 2	50.08	− 6	42.28	− 1	16.03	− 5	17.81	− 2	16.67	+ 3
20	61.63	+ 5	49.84	− 3	42.15	+ 1	15.96	− 4	17.83	− 2	17.00	− 1
21	61.38	+ 7	49.60	0	42.02	+ 3	15.88	− 2	17.85	− 1	17.33	− 4
22	61.13	+ 6	49.35	+ 4	41.89	+ 3	15.80	+ 1	17.87	0	17.66	− 7
23	60.89	+ 3	49.10	+ 7	41.76	+ 3	15.72	+ 5	17.89	+ 1	17.99	− 8
24	60.66	− 1	48.84	+ 9	41.63	+ 2	15.63	+ 8	17.90	+ 3	18.32	− 7
25	60.44	− 6	48.58	+ 9	41.50	0	15.53	+ 9	17.91	+ 3	18.65	− 4
26	60.22	−11	48.32	+ 6	41.37	− 2	15.43	+ 9	17.92	+ 3	18.98	0
27	60.01	−13	48.06	+ 2	41.25	− 4	15.32	+ 7	17.93	+ 2	19.31	+ 4
28	59.80	−12	47.79	− 2	41.13	− 5	15.21	+ 3	17.93	+ 1	19.64	+ 7
sec δ, tg δ	87° 10′ 50″	20.330	+20.305		81° 41′ 10″	6.916	+6.843		82° 10′ 10″	7.340	+7.271	
	60	20.350	+20.325		20	6.918	+6.845		20	7.342	+7.274	

1919	δ Ursae minoris 4ᵐ.3				λ Ursae minoris 6ᵐ.8				76 Draconis 6ᵐ.0			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 58^m$	in ^{s} 0.01	+86° 36′	in ″ 0.01	$18^h 59^m$	in ^{s} 0.01	+89° 1′	in ″ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 13′	in ″ 0.01
April 21	22.63	− 2	38.25	+ 6	59.08	− 2	0.97	+ 6	29.41	+ 1	47.76	+ 6
22	22.92	− 4	38.45	+ 2	60.23	−11	1.09	+ 3	29.58	0	47.74	+ 4
23	23.21	− 4	38.66	− 1	61.36	−17	1.22	0	29.74	− 1	47.74	+ 2
24	23.49	− 3	38.86	− 5	62.49	−17	1.35	− 4	29.91	− 2	47.73	− 2
25	23.76	− 1	39.08	− 7	63.60	−11	1.49	− 7	30.07	− 3	47.74	− 5
26	24.04	+ 2	39.29	− 9	64.71	− 1	1.63	− 9	30.23	− 2	47.75	− 8
27	24.30	+ 5	39.51	− 8	65.80	+12	1.78	− 9	30.39	− 1	47.76	− 9
28	24.57	+ 7	39.74	− 5	66.89	+23	1.93	− 6	30.56	0	47.78	− 8
29	24.83	+ 8	39.97	− 1	67.96	+29	2.09	− 2	30.72	+ 2	47.81	− 6
30	25.08	+ 7	40.20	+ 4	69.02	+29	2.26	+ 2	30.88	+ 3	47.84	− 1
Mai 1	25.33	+ 3	40.44	+ 7	70.07	+20	2.43	+ 6	31.04	+ 3	47.88	+ 3
2	25.57	− 1	40.68	+ 9	71.11	+ 6	2.60	+ 9	31.20	+ 3	47.92	+ 8
3	25.81	− 5	40.93	+ 9	72.13	−10	2.78	+10	31.37	+ 2	47.98	+10
4	26.04	− 9	41.17	+ 6	73.14	−27	2.96	+ 8	31.53	0	48.03	+11
5	26.27	−11	41.43	+ 2	74.13	−38	3.15	+ 5	31.69	− 2	48.10	+ 9
6	26.49	−11	41.68	− 2	75.11	−43	3.35	+ 1	31.85	− 3	48.17	+ 6
7	26.71	− 9	41.94	− 5	76.08	−40	3.55	− 3	32.01	− 4	48.24	+ 2
8	26.92	− 6	42.20	− 8	77.03	−31	3.75	− 6	32.17	− 4	48.32	− 2
9	27.13	− 3	42.47	− 8	77.97	−18	3.96	− 7	32.33	− 3	48.41	− 5
10	27.33	+ 1	42.74	− 7	78.89	− 4	4.17	− 7	32.49	− 2	48.51	− 6
11	27.53	+ 4	43.02	− 5	79.80	+ 9	4.39	− 6	32.65	− 1	48.61	− 7
12	27.72	+ 6	43.29	− 2	80.69	+20	4.61	− 4	32.81	+ 1	48.72	− 6
13	27.90	+ 7	43.58	+ 1	81.56	+26	4.83	− 1	32.96	+ 2	48.83	− 4
14	28.08	+ 7	43.86	+ 4	82.42	+28	5.06	+ 2	33.12	+ 3	48.95	− 1
15	28.25	+ 6	44.15	+ 6	83.26	+26	5.29	+ 5	33.27	+ 3	49.07	+ 1
16	28.42	+ 3	44.44	+ 8	84.08	+20	5.53	+ 6	33.43	+ 3	49.20	+ 3
17	28.58	+ 1	44.73	+ 8	84.89	+11	5.77	+ 7	33.58	+ 3	49.34	+ 5
18	28.74	− 2	45.02	+ 6	85.68	+ 1	6.02	+ 6	33.73	+ 2	49.48	+ 6
19	28.89	− 3	45.32	+ 4	86.46	− 9	6.27	+ 4	33.88	0	49.63	+ 5
20	29.03	− 4	45.62	0	87.22	−16	6.52	+ 1	34.03	− 1	49.78	+ 3
21	29.16	− 4	45.92	− 3	87.96	−18	6.78	− 2	34.18	− 2	49.94	0
22	29.29	− 2	46.23	− 7	88.67	−14	7.04	− 6	34.32	− 3	50.10	− 4
23	29.42	+ 1	46.53	− 8	89.37	− 4	7.30	− 8	34.47	− 3	50.27	− 7
24	29.53	+ 4	46.84	− 8	90.06	+ 8	7.57	− 9	34.61	− 2	50.44	− 9
25	29.64	+ 7	47.15	− 6	90.72	+21	7.84	− 8	34.75	0	50.62	− 9
26	29.75	+ 9	47.46	− 3	91.36	+30	8.12	− 5	34.90	+ 1	50.80	− 7
27	29.85	+ 8	47.78	+ 2	91.99	+33	8.39	0	35.04	+ 2	50.99	− 4
28	29.94	+ 6	48.09	+ 6	92.59	+27	8.67	+ 4	35.17	+ 3	51.19	+ 1
sec δ, tg δ	86° 36′ 40″		16.917	+16.887	89° 1′ 0″		58.270	+58.261	82° 13′ 40″		7.395	+7.327
	50		16.931	+16.901	10		58.435	+58.426	50		7.397	+7.329

1919	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in ^{s} 0.01	+85° 49′	in $''$ 0.01	$1^h 30^m$	in ^{s} 0.01	+88° 52′	in $''$ 0.01	$4^h 10^m$	in ^{s} 0.01	+85° 20′	in $''$ 0.01
Mai 28	$23^s.10$	+ 4	$19''.87$	− 7	$58^s.26$	+15	$17''.08$	− 7	$35^s.37$	− 1	$28''.43$	− 8
29	23.37	+ 8	19.74	− 3	59.15	+28	16.90	− 4	35.45	+ 3	28.13	− 8
30	23.64	+ 9	19.61	+ 2	60.05	+33	16.73	+ 1	35.53	+ 7	27.84	− 5
31	23.92	+ 9	19.49	+ 6	60.96	+32	16.56	+ 5	35.62	+10	27.54	− 1
Juni 1	24.20	+ 6	19.37	+10	61.89	+24	16.39	+ 9	35.72	+10	27.25	+ 3
2	24.48	+ 3	19.26	+11	62.82	+12	16.23	+11	35.81	+ 9	26.96	+ 7
3	24.76	− 1	19.16	+11	63.77	− 2	16.07	+11	35.92	+ 6	26.68	+ 9
4	25.04	− 4	19.05	+ 9	64.73	−13	15.92	+ 9	36.02	+ 3	26.39	+10
5	25.32	− 6	18.96	+ 5	65.69	−21	15.78	+ 6	36.13	− 1	26.11	+ 9
6	25.61	− 7	18.87	+ 2	66.67	−24	15.64	+ 3	36.25	− 3	25.83	+ 6
7	25.90	− 6	18.78	− 2	67.65	−22	15.50	− 1	36.37	− 5	25.55	+ 3
8	26.19	− 4	18.70	− 5	68.65	−16	15.37	− 4	36.49	− 6	25.27	− 1
9	26.49	− 2	18.63	− 7	69.66	− 8	15.25	− 6	36.62	− 5	24.99	− 4
10	26.78	+ 1	18.56	− 7	70.67	+ 2	15.13	− 7	36.75	− 4	24.72	− 6
11	27.08	+ 3	18.50	− 7	71.69	+12	15.01	− 7	36.89	− 2	24.45	− 8
12	27.38	+ 5	18.44	− 5	72.72	+19	14.90	− 6	37.03	0	24.18	− 8
13	27.68	+ 6	18.39	− 3	73.76	+23	14.79	− 4	37.17	+ 2	23.92	− 7
14	27.98	+ 6	18.34	0	74.81	+23	14.69	− 1	37.32	+ 4	23.65	− 5
15	28.29	+ 5	18.30	+ 3	75.87	+18	14.59	+ 2	37.47	+ 5	23.39	− 1
16	28.59	+ 2	18.26	+ 5	76.93	+ 9	14.50	+ 4	37.63	+ 4	23.14	+ 2
17	28.89	− 1	18.23	+ 5	78.00	− 3	14.42	+ 6	37.79	+ 2	22.88	+ 5
18	29.20	− 5	18.20	+ 4	79.07	−16	14.34	+ 5	37.96	− 1	22.63	+ 7
19	29.51	− 7	18.18	+ 2	80.15	−27	14.27	+ 3	38.13	− 4	22.38	+ 7
20	29.82	− 9	18.16	− 2	81.24	−32	14.20	− 1	38.31	− 7	22.13	+ 5
21	30.13	− 9	18.16	− 5	82.33	−31	14.14	− 4	38.48	− 9	21.89	+ 2
22	30.44	− 6	18.15	− 8	83.43	−22	14.08	− 7	38.67	− 9	21.65	− 2
23	30.75	− 2	18.16	− 9	84.53	− 8	14.03	− 9	38.85	− 7	21.41	− 6
24	31.06	+ 2	18.17	− 8	85.64	+ 7	13.98	− 9	39.04	− 3	21.18	− 8
25	31.37	+ 6	18.18	− 5	86.75	+22	13.94	− 6	39.23	+ 1	20.95	− 9
26	31.68	+ 8	18.20	− 1	87.87	+31	13.90	− 2	39.43	+ 5	20.72	− 7
27	31.99	+ 9	18.23	+ 4	88.99	+33	13.87	+ 3	39.63	+ 8	20.50	− 4
28	32.30	+ 7	18.26	+ 8	90.12	+27	13.85	+ 7	39.83	+10	20.28	+ 1
29	32.61	+ 4	18.30	+10	91.25	+16	13.83	+10	40.04	+ 9	20.07	+ 5
30	32.93	+ 1	18.34	+11	92.38	+ 3	13.82	+11	40.25	+ 7	19.85	+ 8
Juli 1	33.24	− 3	18.38	+ 9	93.51	−10	13.81	+10	40.46	+ 4	19.65	+10
2	33.55	− 5	18.44	+ 7	94.64	−19	13.81	+ 7	40.68	+ 1	19.44	+ 9
3	33.86	− 7	18.50	+ 3	95.78	−24	13.81	+ 4	40.90	− 2	19.24	+ 7
4	34.18	− 7	18.56	− 1	96.92	−23	13.82	0	41.12	− 5	19.04	+ 4
sec δ, tg δ	85° 49′ 10″	13.717	+13.681		88° 52′ 10″	50.683	+50.673		85° 20′ 20″	12.306	+12.265	
	20	13.727	+13.690		20	50.807	+50.798		30	12.313	+12.273	

1919	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 2^m$	in s 0.01	+87° 10′	in ″ 0.01	$9^h\ 25^m$	in s 0.01	+81° 41′	in ″ 0.01	$16^h\ 54^m$	in s 0.01	+82° 10′	in ″ 0.01
Mai 28	59.80	−12	47.79	−2	41.13	−5	15.21	+3	17.93	+1	19.64	+7
29	59.60	−8	47.52	−6	41.00	−4	15.09	−2	17.93	0	19.97	+9
30	59.41	−2	47.24	−9	40.88	−3	14.97	−6	17.93	−2	20.30	+8
31	59.23	+5	46.96	−9	40.76	0	14.84	−9	17.92	−3	20.63	+5
Juni 1	59.05	+11	46.68	−8	40.64	+2	14.71	−11	17.90	−4	20.96	+1
2	58.88	+15	46.40	−5	40.53	+4	14.57	−10	17.89	−4	21.29	−3
3	58.72	+17	46.12	−1	40.41	+6	14.43	−7	17.87	−3	21.62	−7
4	58.56	+16	45.83	+3	40.30	+6	14.28	−3	17.85	−2	21.94	−9
5	58.41	+12	45.54	+6	40.18	+5	14.13	0	17.83	0	22.27	−9
6	58.27	+7	45.25	+7	40.07	+4	13.97	+3	17.81	+1	22.60	−8
7	58.13	+1	44.95	+7	39.96	+2	13.80	+5	17.79	+2	22.93	−5
8	58.00	−4	44.65	+5	39.85	0	13.63	+6	17.77	+2	23.25	−2
9	57.88	−8	44.35	+3	39.74	−2	13.46	+6	17.75	+2	23.58	+1
10	57.77	−10	44.05	0	39.63	−3	13.28	+4	17.72	+2	23.90	+4
11	57.66	−11	43.75	−2	39.53	−4	13.10	+2	17.68	+1	24.22	+7
12	57.56	−9	43.44	−5	39.42	−4	12.91	0	17.64	0	24.55	+8
13	57.47	−7	43.14	−6	39.32	−4	12.72	−3	17.60	0	24.87	+8
14	57.39	−3	42.83	−7	39.22	−3	12.53	−5	17.56	−1	25.18	+6
15	57.32	+1	42.52	−6	39.12	−1	12.33	−6	17.51	−2	25.50	+4
16	57.25	+5	42.21	−4	39.03	+1	12.13	−5	17.46	−2	25.82	0
17	57.19	+7	41.89	−1	38.93	+2	11.92	−3	17.41	−1	26.13	−3
18	57.14	+8	41.58	+3	38.84	+3	11.71	−1	17.36	0	26.45	−6
19	57.09	+5	41.26	+6	38.75	+3	11.49	+3	17.30	+1	26.76	−8
20	57.05	+1	40.94	+9	38.66	+2	11.27	+7	17.24	+2	27.07	−8
21	57.02	−4	40.63	+9	38.57	+1	11.04	+9	17.18	+3	27.38	−5
22	57.00	−9	40.31	+8	38.48	−2	10.81	+10	17.11	+3	27.68	−2
23	56.98	−13	39.99	+4	38.40	−4	10.58	+8	17.04	+3	27.98	+2
24	56.98	−14	39.67	0	38.32	−5	10.34	+5	16.97	+2	28.28	+6
25	56.98	−11	39.35	−4	38.24	−5	10.10	0	16.90	0	28.57	+8
26	56.98	−6	39.02	−8	38.16	−4	9.85	−4	16.82	−1	28.87	+9
27	57.00	+1	38.70	−9	38.08	−2	9.61	−8	16.75	−3	29.16	+7
28	57.02	+7	38.38	−9	38.00	+1	9.35	−10	16.66	−3	29.45	+3
29	57.05	+13	38.05	−6	37.93	+3	9.10	−10	16.58	−4	29.73	−1
30	57.09	+16	37.73	−2	37.86	+5	8.84	−8	16.49	−3	30.01	−5
Juli 1	57.13	+16	37.40	+2	37.79	+6	8.57	−5	16.41	−2	30.29	−8
2	57.19	+13	37.08	+5	37.73	+6	8.31	−1	16.31	−1	30.57	−9
3	57.25	+9	36.75	+7	37.66	+4	8.04	+2	16.22	0	30.84	−9
4	57.32	+3	36.43	+7	37.60	+3	7.76	+5	16.13	+1	31.11	−7
sec δ, tg δ	87° 10′ 40″		20.310	+20.285	81° 41′ 10″		6.916	+6.843	82° 10′ 20″		7.342	+7.274
	50		20.330	+20.305	20		6.918	+6.845	30		7.345	+7.277

1919	δ Ursae minoris 4ᵐ.3				λ Ursae minoris 6ᵐ.8				76 Draconis 6ᵐ.0			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 58^m$	in s 0.01	+86° 36′	in ″ 0.01	$19^h 0^m$	in s 0.01	+89° 1′	in ″ 0.01	$20^h 48^m$	in s 0.01	+82° 13′	in ″ 0.01
Mai 28	29.94	+ 6	48.09	+ 6	32.59	+27	8.67	+ 4	35.17	+ 3	51.19	+ 1
29	30.03	+ 2	48.41	+ 8	33.18	+15	8.96	+ 8	35.31	+ 3	51.39	+ 5
30	30.11	− 3	48.73	+ 9	33.75	− 1	9.24	+ 9	35.45	+ 2	51.59	+ 9
31	30.19	− 7	49.05	+ 7	34.30	−19	9.53	+ 9	35.59	+ 1	51.80	+10
Juni 1	30.25	−10	49.37	+ 4	34.82	−33	9.82	+ 6	35.72	− 1	52.02	+10
2	30.32	−11	49.69	0	35.33	−41	10.12	+ 3	35.85	− 2	52.23	+ 7
3	30.37	−10	50.02	− 4	35.82	−42	10.41	− 1	35.98	− 4	52.46	+ 4
4	30.42	− 8	50.34	− 7	36.28	−36	10.71	− 5	36.11	− 4	52.69	0
5	30.46	− 4	50.67	− 8	36.72	−25	11.01	− 7	36.23	− 4	52.92	− 3
6	30.50	− 1	50.99	− 8	37.14	−11	11.32	− 7	36.36	− 3	53.15	− 5
7	30.52	+ 2	51.32	− 6	37.55	+ 3	11.62	− 7	36.48	− 1	53.40	− 6
8	30.55	+ 5	51.65	− 3	37.93	+15	11.93	− 5	36.60	0	53.64	− 6
9	30.56	+ 6	51.98	0	38.29	+23	12.24	− 2	36.72	+ 1	53.89	− 4
10	30.57	+ 6	52.31	+ 3	38.63	+27	12.55	+ 1	36.84	+ 2	54.15	− 2
11	30.58	+ 6	52.64	+ 5	38.95	+26	12.87	+ 4	36.95	+ 3	54.41	0
12	30.57	+ 4	52.97	+ 7	39.25	+21	13.18	+ 6	37.06	+ 3	54.67	+ 3
13	30.56	+ 1	53.30	+ 8	39.53	+13	13.50	+ 7	37.17	+ 3	54.94	+ 5
14	30.54	− 1	53.63	+ 7	39.78	+ 3	13.82	+ 7	37.28	+ 2	55.21	+ 6
15	30.52	− 3	53.96	+ 5	40.01	− 7	14.14	+ 6	37.39	+ 1	55.48	+ 6
16	30.49	− 5	54.29	+ 2	40.23	−16	14.46	+ 3	37.50	− 1	55.76	+ 4
17	30.45	− 5	54.62	− 2	40.42	−19	14.79	− 1	37.60	− 2	56.04	+ 2
18	30.41	− 3	54.95	− 5	40.58	−18	15.11	− 4	37.70	− 3	56.32	− 2
19	30.36	0	55.27	− 8	40.73	−10	15.43	− 7	37.80	− 3	56.61	− 6
20	30.31	+ 3	55.60	− 9	40.85	+ 2	15.76	− 9	37.90	− 2	56.90	− 9
21	30.25	+ 6	55.93	− 7	40.96	+16	16.09	− 8	37.99	− 1	57.20	−10
22	30.18	+ 8	56.25	− 4	41.04	+27	16.41	− 6	38.09	0	57.50	− 9
23	30.10	+ 9	56.58	0	41.09	+34	16.74	− 2	38.18	+ 2	57.81	− 6
24	30.02	+ 8	56.90	+ 4	41.13	+32	17.07	+ 2	38.26	+ 3	58.11	− 2
25	29.94	+ 4	57.23	+ 8	41.15	+23	17.40	+ 6	38.35	+ 4	58.42	+ 3
26	29.84	0	57.55	+ 9	41.14	+ 8	17.73	+ 9	38.43	+ 4	58.73	+ 7
27	29.74	− 5	57.87	+ 8	41.11	− 9	18.07	+ 9	38.51	+ 2	59.04	+ 9
28	29.63	− 8	58.19	+ 6	41.06	−25	18.40	+ 8	38.59	0	59.36	+10
29	29.52	−10	58.51	+ 2	40.99	−37	18.73	+ 4	38.66	− 2	59.68	+ 8
30	29.40	−10	58.83	− 2	40.89	−41	19.06	0	38.73	− 3	60.00	+ 5
Juli 1	29.28	− 9	59.15	− 6	40.78	−37	19.40	− 3	38.80	− 4	60.33	+ 1
2	29.14	− 6	59.47	− 8	40.64	−29	19.73	− 6	38.87	− 4	60.66	− 2
3	29.01	− 2	59.78	− 8	40.47	−16	20.07	− 7	38.94	− 3	60.99	− 5
4	28.86	+ 1	60.09	− 7	40.29	− 2	20.40	− 7	39.00	− 2	61.32	− 6
sec δ, tg δ	86° 36′ 50″		16.931	+16.901	89° 1′ 10″		58.435	+58.426	82° 13′ 50″		7.397	+7.329
	60		16.945	+16.915	20		58.601	+58.592	60		7.400	+7.332

1919	43 Hev. Cephei 4ᵐ.3				α Ursae minoris 2ᵐ.0				Gr. 750 6ᵐ.8			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in s 0.01	+85° 49′	in ″ 0.01	$1^h 31^m$	in s 0.01	+88° 52′	in ″ 0.01	$4^h 10^m$	in s 0.01	+85° 20′	in ″ 0.01
Juli 4	34.18	−7	18.56	−1	36.92	−23	13.82	0	41.12	−5	19.04	+4
5	34.49	−5	18.63	−4	38.06	−18	13.83	−3	41.35	−6	18.85	+1
6	34.80	−3	18.71	−6	39.21	−11	13.85	−6	41.58	−6	18.66	−3
7	35.11	0	18.79	−7	40.35	−1	13.87	−7	41.81	−5	18.47	−5
8	35.42	+2	18.88	−7	41.50	+8	13.90	−7	42.05	−3	18.29	−7
9	35.73	+5	18.97	−6	42.65	+16	13.94	−6	42.29	−1	18.11	−8
10	36.04	+6	19.07	−4	43.80	+22	13.98	−4	42.53	+2	17.94	−7
11	36.35	+7	19.17	−1	44.94	+24	14.03	−2	42.78	+4	17.77	−5
12	36.66	+6	19.28	+2	46.09	+21	14.08	+1	43.03	+5	17.60	−3
13	36.96	+4	19.39	+4	47.24	+14	14.14	+4	43.28	+5	17.44	+1
14	37.27	+1	19.51	+6	48.39	+2	14.20	+6	43.53	+4	17.28	+4
15	37.57	−3	19.63	+5	49.54	−10	14.27	+6	43.79	+1	17.13	+6
16	37.88	−6	19.76	+3	50.68	−22	14.34	+4	44.04	−2	16.98	+7
17	38.18	−8	19.89	0	51.83	−30	14.42	+1	44.31	−5	16.84	+6
18	38.48	−9	20.03	−4	52.97	−31	14.50	−2	44.57	−8	16.70	+3
19	38.78	−7	20.17	−7	54.11	−26	14.59	−6	44.84	−9	16.56	0
20	39.08	−4	20.32	−9	55.25	−14	14.68	−8	45.11	−8	16.43	−4
21	39.38	+1	20.48	−9	56.38	+1	14.78	−9	45.38	−5	16.31	−7
22	39.67	+5	20.64	−7	57.52	+16	14.89	−7	45.65	−1	16.18	−9
23	39.97	+8	20.80	−3	58.65	+27	15.00	−4	45.93	+3	16.07	−8
24	40.26	+9	20.97	+2	59.78	+32	15.12	0	46.20	+7	15.95	−5
25	40.55	+8	21.15	+6	60.90	+29	15.24	+5	46.48	+9	15.84	−1
26	40.84	+5	21.33	+9	62.02	+20	15.37	+8	46.76	+9	15.74	+3
27	41.13	+2	21.51	+10	63.13	+8	15.50	+10	47.05	+8	15.64	+7
28	41.41	−2	21.70	+10	64.24	−6	15.63	+10	47.33	+5	15.54	+9
29	41.69	−5	21.89	+7	65.35	−17	15.77	+8	47.62	+1	15.45	+10
30	41.98	−7	22.09	+4	66.45	−23	15.92	+5	47.91	−2	15.37	+8
31	42.25	−7	22.29	+1	67.55	−24	16.07	+2	48.20	−4	15.28	+5
Aug. 1	42.53	−6	22.50	−3	68.64	−21	16.22	−2	48.49	−5	15.21	+2
2	42.81	−4	22.71	−5	69.73	−14	16.38	−5	48.78	−6	15.14	−2
3	43.08	−1	22.93	−7	70.81	−5	16.55	−7	49.07	−5	15.07	−5
4	43.35	+1	23.15	−7	71.89	+5	16.72	−7	49.37	−3	15.00	−7
5	43.63	+4	23.37	−6	72.96	+13	16.89	−7	49.67	−1	14.95	−8
6	43.89	+6	23.60	−4	74.03	+20	17.07	−5	49.96	+1	14.89	−8
7	44.16	+7	23.83	−2	75.09	+23	17.25	−3	50.26	+3	14.84	−6
8	44.42	+6	24.07	+1	76.14	+22	17.44	0	50.56	+5	14.79	−4
9	44.68	+5	24.31	+3	77.18	+17	17.63	+3	50.86	+5	14.75	−1
10	44.94	+2	24.55	+5	78.22	+8	17.83	+5	51.16	+4	14.72	+3

sec δ, tg δ								
	85°49′20″	13.727	+13.690	88°52′10″	50.683	+50.673	85°20′10″	12.298	+12.258
	30	13.736	+13.699	20	50.807	+50.798	20	12.306	+12.265

1919	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 2^m$	in ^{s} 0.01	+87° 10′	in $''$ 0.01	$9^h 25^m$	in ^{s} 0.01	+81° 40′	in $''$ 0.01	$16^h 54^m$	in ^{s} 0.01	+82° 10′	in $''$ 0.01
Juli 4	$57\overset{s}{.}32$	+ 3	$36\overset{''}{.}43$	+ 7	$37\overset{s}{.}60$	+ 3	$67\overset{''}{.}76$	+ 5	$16\overset{s}{.}13$	+ 1	$31\overset{''}{.}11$	− 7
5	57.39	− 2	36.10	+ 6	37.54	+ 1	67.49	+ 6	16.03	+ 2	31.38	− 3
6	57.48	− 6	35.78	+ 4	37.48	− 1	67.21	+ 6	15.93	+ 2	31.65	0
7	57.57	− 9	35.45	+ 1	37.43	− 3	66.93	+ 5	15.84	+ 2	31.91	+ 3
8	57.66 57.77	− 10 − 10	35.13 34.81	− 1 − 4	37.37	− 4	66.65	+ 3	15.73	+ 1	32.17	+ 6
9	57.88	− 8	34.49	− 6	37.32	− 4	66.36	0	15.63	+ 1	32.43	+ 7
10	58.00	− 4	34.16	− 7	37.27	− 4	66.07	− 2	15.52	0	32.68	+ 8
11	58.13	0	33.84	− 7	37.22	− 3	65.78	− 4	15.41	− 1	32.93	+ 7
12	58.26	+ 4	33.52	− 5	37.18	− 2	65.48	− 5	15.30	− 2	33.17	+ 5
13	58.40	+ 7	33.20	− 3	37.13	0	65.18	− 6	15.18	− 2	33.42	+ 2
14	58.55	+ 8	32.88	+ 1	37.09	+ 2	64.88	− 5	15.06	− 2	33.65	− 2
15	58.71	+ 7	32.57	+ 5	37.05	+ 3	64.58	− 2	14.94	− 1	33.89	− 5
16	58.87	+ 4	32.25	+ 7	37.01	+ 3	64.27	+ 1	14.82	0	34.12	− 7
17	59.04	− 1	31.93	+ 9	36.98	+ 3	63.97	+ 5	14.70	+ 1	34.35	− 8
18	59.22	− 6	31.62	+ 8	36.94	+ 2	63.65	+ 8	14.58	+ 2	34.57	− 6
19	59.40	− 11	31.31	+ 6	36.91	− 1	63.34	+ 9	14.45	+ 3	34.79	− 3
20	59.60	− 13	31.00	+ 2	36.88	− 3	63.02	+ 9	14.32	+ 3	35.01	+ 1
21	59.79	− 12	30.68	− 3	36.86	− 4	62.71	+ 6	14.19	+ 2	35.22	+ 5
22	60.00	− 9	30.37	− 6	36.84	− 5	62.39	+ 2	14.06	+ 1	35.42	+ 8
23	60.21	− 3	30.07	− 9	36.82	− 4	62.07	− 2	13.93	0	35.63	+ 9
24	60.43	+ 4	29.76	− 9	36.80	− 3	61.74	− 6	13.79	− 2	35.82	+ 8
25	60.65	+ 10	29.45	− 7	36.78	0	61.42	− 9	13.66	− 3	36.02	+ 5
26	60.89	+ 14	29.15	− 4	36.76	+ 2	61.09	− 10	13.52	− 3	36.21	+ 1
27	61.12	+ 15	28.84	0	36.75	+ 4	60.76	− 8	13.38	− 3	36.39	− 4
28	61.37	+ 14	28.54	+ 4	36.74	+ 6	60.43	− 5	13.23	− 2	36.57	− 7
29	61.62	+ 10	28.24	+ 6	36.73	+ 6	60.10	− 2	13.09	− 1	36.75	− 9
30	61.88	+ 5	27.95	+ 7	36.73	+ 5	59.77	+ 2	12.94	0	36.92	− 9
31	62.15	0	27.65	+ 7	36.72	+ 3	59.43	+ 4	12.79	+ 1	37.09	− 7
Aug. 1	62.42	− 5	27.36	+ 5	36.72	+ 1	59.10	+ 6	12.65	+ 2	37.25	− 5
2	62.69	− 8	27.07	+ 3	36.72	− 1	58.76	+ 6	12.50	+ 2	37.41	− 1
3	62.97	− 10	26.78	0	36.73	− 2	58.42	+ 5	12.34	+ 2	37.57	+ 2
4	63.26	− 10	26.50	− 3	36.73	− 4	58.09	+ 4	12.19	+ 1	37.72	+ 5
5	63.55	− 9	26.21	− 5	36.74	− 4	57.75	+ 1	12.04	+ 1	37.87	+ 7
6	63.85	− 6	25.93	− 7	36.75	− 4	57.40	− 1	11.88	0	38.01	+ 8
7	64.16	− 2	25.65	− 7	36.76	− 3	57.06	− 3	11.73	0	38.15	+ 7
8	64.48	+ 2	25.37	− 6	36.77	− 2	56.72	− 5	11.57	− 1	38.28	+ 6
9	64.80	+ 6	25.10	− 4	36.79	0	56.37	− 6	11.41	− 2	38.41	+ 3
10	65.12	+ 8	24.83	− 1	36.81	+ 1	56.03	− 5	11.25	− 2	38.53	0
sec δ, tg δ	87° 10′ 30″	20.290	+20.265		81° 40′ 60″	6.914	+6.841		82° 10′ 30″	7.345	+7.277	
	40	20.310	+20.285		70	6.916	+6.843		40	7.348	+7.279	

1919	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 58^m$	in 0.01^s	+86° 37′	in 0.01″	$19^h 0^m$	in 0.01^s	+89° 1′	in 0.01″	$20^h 48^m$	in 0.01^s	+82° 14′	in 0.01″
Juli 4	28.86^s	+ 1	0.09″	− 7	40.29^s	− 2	20.40″	− 7	39.00^s	− 2	1.32″	− 6
5	28.71	+ 4	0.40	− 5	40.09	+10	20.73	− 6	39.06	− 1	1.66	− 6
6	28.56	+ 6	0.71	− 1	39.86	+20	21.07	− 3	39.12	+ 1	1.99	− 5
7	28.40	+ 6	1.02	+ 1	39.62	+25	21.40	0	39.17	+ 2	2.33	− 3
8	28.23	+ 6	1.33	+ 4	39.35	+26	21.73	+ 3	39.22	+ 3	2.67	− 1
9	28.06	+ 4	1.63	+ 6	39.06	+23	22.06	+ 5	39.27	+ 3	3.01	+ 2
10	27.88	+ 2	1.93	+ 8	38.75	+16	22.39	+ 7	39.32	+ 3	3.36	+ 4
11	27.69	0	2.23	+ 7	38.41	+ 6	22.72	+ 7	39.36	+ 2	3.70	+ 6
12	27.50	− 3	2.53	+ 6	38.06	− 4	23.04	+ 6	39.41	+ 1	4.05	+ 6
13	27.31	− 4	2.83	+ 3	37.68	−14	23.37	+ 4	39.45	0	4.40	+ 5
14	27.10	− 5	3.12	0	37.29	−20	23.70	+ 1	39.48	− 1	4.75	+ 3
15	26.90	− 4	3.41	− 4	36.88	−21	24.02	− 3	39.52	− 2	5.10	0
16	26.69	− 2	3.70	− 7	36.44	−16	24.35	− 6	39.55	− 3	5.46	− 4
17	26.47	+ 1	3.98	− 8	35.99	− 5	24.67	− 8	39.58	− 3	5.81	− 7
18	26.25	+ 4	4.26	− 8	35.51	+ 8	25.00	− 9	39.61	− 2	6.16	− 9
19	26.02	+ 7	4.54	− 5	35.01	+22	25.32	− 7	39.63	0	6.52	− 9
20	25.79	+ 9	4.82	− 2	34.49	+31	25.64	− 4	39.65	+ 1	6.88	− 7
21	25.55	+ 8	5.09	+ 3	33.95	+33	25.96	0	39.67	+ 3	7.24	− 3
22	25.30	+ 6	5.36	+ 6	33.39	+28	26.27	+ 5	39.69	+ 3	7.59	+ 1
23	25.05	+ 2	5.63	+ 9	32.81	+16	26.59	+ 8	39.70	+ 3	7.95	+ 5
24	24.80	− 2	5.89	+ 9	32.21	− 1	26.91	+ 9	39.71	+ 2	8.32	+ 8
25	24.54	− 6	6.16	+ 7	31.59	−17	27.22	+ 8	39.72	+ 1	8.68	+10
26	24.27	− 9	6.42	+ 3	30.95	−31	27.53	+ 6	39.72	− 1	9.04	+ 8
27	24.00	−10	6.67	− 1	30.29	−38	27.84	+ 2	39.72	− 3	9.41	+ 6
28	23.73	− 9	6.93	− 5	29.61	−38	28.15	− 2	39.72	− 4	9.77	+ 2
29	23.45	− 6	7.18	− 7	28.91	−31	28.45	− 6	39.72	− 4	10.14	− 1
30	23.17	− 3	7.43	− 8	28.19	−20	28.75	− 7	39.72	− 3	10.50	− 4
31	22.88	0	7.67	− 8	27.45	− 6	29.05	− 8	39.71	− 2	10.87	− 6
Aug. 1	22.58	+ 3	7.91	− 6	26.69	+ 7	29.35	− 7	39.70	− 1	11.23	− 6
2	22.29	+ 5	8.15	− 3	25.92	+17	29.65	− 4	39.68	0	11.60	− 6
3	21.98	+ 6	8.38	0	25.13	+24	29.94	− 1	39.67	+ 2	11.96	− 4
4	21.68	+ 6	8.61	+ 3	24.33	+26	30.23	+ 2	39.65	+ 2	12.33	− 1
5	21.37	+ 5	8.84	+ 6	23.50	+25	30.52	+ 4	39.63	+ 3	12.69	+ 1
6	21.05	+ 3	9.06	+ 7	22.66	+19	30.81	+ 6	39.61	+ 3	13.06	+ 3
7	20.73	+ 1	9.28	+ 8	21.79	+10	31.10	+ 7	39.58	+ 3	13.42	+ 5
8	20.41	− 2	9.50	+ 7	20.91	0	31.38	+ 7	39.55	+ 2	13.79	+ 6
9	20.08	− 4	9.71	+ 4	20.01	−10	31.66	+ 5	39.52	0	14.15	+ 6
10	19.75	− 5	9.92	+ 1	19.09	−18	31.93	+ 2	39.49	− 1	14.51	+ 4
sec δ, tg δ	86° 37′ 0″	16.945	+16.915		89° 1′ 20″	58.601	+58.592		82° 14′ 0″	7.400	+7.332	
	10	16.958	+16.929		30	58.768	+58.759		10	7.402	+7.335	

1919	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$ s	in s 0.01	+85° 49′ ″	in ″ 0.01	$1^h 32^m$ s	in s 0.01	+88° 52′ ″	in ″ 0.01	$4^h 10^m$ s	in s 0.01	+85° 20′ ″	in ″ 0.01
Aug. 10	44.94	+ 2	24.55	+ 5	18.22	+ 8	17.83	+ 5	51.16	+ 4	14.72	+ 3
11	45.19	− 1	24.80	+ 6	19.25	− 5	18.03	+ 6	51.47	+ 2	14.69	+ 6
12	45.44	− 5	25.06	+ 5	20.28	−17	18.24	+ 5	51.77	0	14.66	+ 7
13	45.69	− 7	25.31	+ 2	21.30	−27	18.45	+ 3	52.08	− 4	14.64	+ 7
14	45.93	− 9	25.58	− 1	22.31	−31	18.67	0	52.38	− 6	14.63	+ 5
15	46.17	− 8	25.84	− 5	23.31	−28	18.89	− 4	52.69	− 8	14.62	+ 2
16	46.41	− 5	26.11	− 8	24.30	−18	19.11	− 7	53.00	− 8	14.61	− 2
17	46.65	− 1	26.39	− 9	25.29	− 5	19.34	− 8	53.31	− 6	14.61	− 6
18	46.89	+ 3	26.67	− 7	26.27	+10	19.57	− 8	53.62	− 2	14.62	− 8
19	47.12	+ 7	26.95	− 4	27.24	+24	19.81	− 5	53.93	+ 2	14.63	− 8
20	47.35	+ 9	27.23	0	28.19	+31	20.05	− 1	54.24	+ 6	14.64	− 6
21	47.57	+ 9	27.52	+ 4	29.14	+31	20.30	+ 3	54.55	+ 8	14.66	− 3
22	47.79	+ 7	27.81	+ 8	30.08	+24	20.55	+ 7	54.86	+ 9	14.68	+ 1
23	48.01	+ 3	28.11	+10	31.01	+13	20.80	+10	55.17	+ 8	14.71	+ 5
24	48.23	0	28.40	+10	31.93	− 1	21.06	+10	55.48	+ 6	14.74	+ 8
25	48.44	− 4	28.71	+ 8	32.84	−13	21.32	+ 9	55.79	+ 3	14.78	+ 9
26	48.65	− 6	29.01	+ 5	33.74	−21	21.58	+ 6	56.10	− 1	14.82	+ 9
27	48.85	− 7	29.32	+ 2	34.63	−25	21.85	+ 3	56.41	− 3	14.86	+ 6
28	49.05	− 6	29.63	− 2	35.51	−23	22.12	− 1	56.72	− 5	14.91	+ 3
29	49.25	− 5	29.94	− 5	36.38	−18	22.40	− 4	57.03	− 6	14.97	0
30	49.44	− 2	30.26	− 6	37.23	− 9	22.68	− 6	57.34	− 6	15.03	− 3
31	49.64	0	30.58	− 7	38.08	+ 1	22.96	− 7	57.65	− 4	15.09	− 6
Sept. 1	49.82	+ 3	30.90	− 7	38.91	+10	23.25	− 7	57.96	− 2	15.16	− 7
2	50.01	+ 5	31.23	− 5	39.73	+17	23.54	− 6	58.27	0	15.23	− 8
3	50.19	+ 6	31.55	− 3	40.55	+22	23.83	− 4	58.58	+ 2	15.31	− 7
4	50.37	+ 6	31.88	0	41.35	+22	24.13	− 1	58.88	+ 4	15.39	− 5
5	50.54	+ 5	32.21	+ 2	42.13	+19	24.43	+ 1	59.19	+ 5	15.48	− 2
6	50.71	+ 3	32.55	+ 4	42.91	+11	24.74	+ 4	59.50	+ 5	15.57	+ 1
7	50.87	0	32.89	+ 5	43.67	0	25.05	+ 5	59.81	+ 3	15.67	+ 4
8	51.03	− 3	33.23	+ 5	44.43	−12	25.36	+ 6	60.11	+ 1	15.77	+ 7
9	51.19	− 6	33.57	+ 3	45.17	−23	25.67	+ 4	60.42	− 2	15.88	+ 7
10	51.34	− 8	33.92	0	45.89	−29	25.98	+ 1	60.73	− 5	15.99	+ 6
11	51.49	− 8	34.27	− 4	46.61	−30	26.30	− 2	61.03	− 7	16.10	+ 3
12	51.64	− 6	34.62	− 6	47.31	−22	26.62	− 6	61.33	− 8	16.22	− 1
13	51.78	− 3	34.97	− 8	48.00	−10	26.95	− 8	61.63	− 7	16.34	− 4
14	51.92	+ 2	35.32	− 8	48.67	+ 5	27.27	− 8	61.93	− 3	16.47	− 7
15	52.06	+ 6	35.67	− 5	49.33	+20	27.60	− 6	62.23	+ 1	16.60	− 8
16	52.19	+ 8	36.03	− 1	49.98	+30	27.93	− 3	62.53	+ 5	16.74	− 7

sec δ, tg δ								
	85° 49′ 30″	13.736	+13.699	88° 52′ 20″	50.807	+50.798	85° 20′ 10″	12.298	+12.258
	40	13.745	+13.708	30	50.933	+50.923	20	12.306	+12.265

1919	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 3^m$	in ^{s} 0.01	+87° 10′	in ″ 0.01	$9^h 25^m$	in ^{s} 0.01	+81° 40′	in ″ 0.01	$16^h 54^m$	in ^{s} 0.01	+82° 10′	in ″ 0.01
Aug. 10	5.12	+ 8	24.83	− 1	36.81	+ 1	56.03	− 5	11.25	− 2	38.53	0
11	5.45	+ 8	24.56	+ 3	36.83	+ 3	55.68	− 3	11.09	− 1	38.65	− 4
12	5.79	+ 6	24.29	+ 6	36.86	+ 4	55.33	0	10.92	0	38.77	− 7
13	6.13	+ 2	24.03	+ 8	36.88 36.91	+ 3 + 2	54.99 54.64	+ 3 + 6	10.76	+ 1	38.88	− 8
14	6.47	− 3	23.77	+ 9	36.94	+ 1	54.29	+ 8	10.59	+ 2	38.98	− 7
15	6.82	− 8	23.51	+ 7	36.97	− 1	53.95	+ 9	10.43	+ 3	39.08	− 5
16	7.18	−12	23.25	+ 3	37.00	− 3	53.60	+ 7	10.26	+ 3	39.18	− 1
17	7.54	−12	23.00	− 1	37.04	− 4	53.26	+ 4	10.09	+ 2	39.27	+ 3
18	7.91	−10	22.75	− 5	37.08	− 5	52.91	− 1	9.92	+ 2	39.35	+ 6
19	8.28	− 5	22.50	− 8	37.12	− 3	52.57	− 5	9.75	0	39.43	+ 8
20	8.66	+ 2	22.26	− 9	37.17	− 1	52.22	− 8	9.58	− 1	39.50	+ 8
21	9.04	+ 8	22.02	− 8	37.21	+ 1	51.88	−10	9.40	− 3	39.57	+ 6
22	9.43	+13	21.78	− 5	37.26	+ 3	51.53	− 9	9.23	− 3	39.64	+ 2
23	9.82	+15	21.55	− 1	37.31	+ 5	51.19	− 7	9.06	− 3	39.70	− 2
24	10.22	+14	21.32	+ 3	37.36	+ 5	50.84	− 3	8.89	− 3	39.75	− 6
25	10.62	+11	21.09	+ 6	37.42	+ 5	50.50	+ 1	8.71	− 2	39.80	− 8
26	11.03	+ 7	20.87	+ 7	37.47	+ 4	50.15	+ 3	8.54	0	39.85	− 9
27	11.44	+ 1	20.65	+ 7	37.53	+ 2	49.81	+ 6	8.36	+ 1	39.89	− 8
28	11.85	− 4	20.43	+ 6	37.59	0	49.47	+ 6	8.19	+ 2	39.92	− 6
29	12.27	− 7	20.22	+ 4	37.65	− 2	49.12	+ 6	8.01	+ 2	39.95	− 2
30	12.69	−10	20.01	+ 1	37.72	− 3	48.78	+ 5	7.84	+ 2	39.97	+ 1
31	13.12	−10	19.81	− 2	37.79	− 4	48.44	+ 2	7.66	+ 2	39.99	+ 4
Sept. 1	13.55	−10	19.61	− 4	37.86	− 4	48.10	0	7.48	+ 1	40.01	+ 6
2	13.99	− 7	19.41	− 6	37.93	− 4	47.76	− 2	7.30	+ 1	40.02	+ 7
3	14.43	− 4	19.21	− 7	38.00	− 3	47.43	− 4	7.13	0	40.02	+ 8
4	14.87	0	19.02	− 6	38.07	− 1	47.09	− 5	6.95	− 1	40.02	+ 7
5	15.32	+ 4	18.83	− 5	38.15	0	46.75	− 5	6.77	− 2	40.02	+ 4
6	15.77	+ 7	18.65	− 2	38.23	+ 2	46.42	− 4	6.59	− 2	40.01	+ 1
7	16.22	+ 8	18.47	+ 2	38.31	+ 3	46.09	− 1	6.41	− 1	39.99	− 2
8	16.68	+ 7	18.29	+ 5	38.40	+ 3	45.75	+ 2	6.23	− 1	39.97	− 5
9	17.14	+ 3	18.12	+ 8	38.48	+ 3	45.43	+ 5	6.06	0	39.94	− 7
10	17.61	− 1	17.95	+ 9	38.57	+ 1	45.10	+ 8	5.88	+ 1	39.91	− 8
11	18.08	− 6	17.79	+ 8	38.66	− 1	44.77	+ 9	5.70	+ 2	39.88	− 6
12	18.55	−10	17.63	+ 5	38.75	− 3	44.45	+ 8	5.52	+ 3	39.83	− 3
13	19.02	−12	17.47	+ 1	38.85	− 4	44.13	+ 5	5.34	+ 3	39.79	+ 1
14	19.50	−10	17.32	− 4	38.94	− 5	43.80	+ 1	5.16	+ 2	39.74	+ 5
15	19.98	− 6	17.17	− 7	39.04	− 4	43.49	− 4	4.98	+ 1	39.68	+ 8
16	20.47	0	17.03	− 9	39.14	− 2	43.17	− 7	4.80	− 1	39.62	+ 9
sec δ, tg δ	87° 10′ 20″		20.270	+20.245	81° 40′ 40″		6.909	+6.836	82° 10′ 30″		7.345	+7.277
	30		20.290	+20.265	50		6.911	+6.839	40		7.348	+7.279

1919	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 58^m$ s	in s 0.01	+86° 37′ ″	in ″ 0.01	$18^h 59^m$ s	in s 0.01	+89° 1′ ″	in ″ 0.01	$20^h 48^m$ s	in s 0.01	+82° 14′ ″	in ″ 0.01
Aug. 10	19.75	− 5	9.92	+ 1	79.09	−18	31.93	+ 2	39.49	− 1	14.51	+ 4
11	19.41	− 5	10.12	− 2	78.16	−21	32.21	− 1	39.45	− 2	14.88	+ 1
12	19.07	− 4	10.32	− 6	77.21	−19	32.48	− 5	39.41	− 3	15.24	− 2
13	18.73	− 1	10.52	− 8	76.24	−11	32.75	− 7	39.37	− 3	15.59	− 6
14	18.38	+ 2	10.71	− 8	75.26	+ 1	33.02	− 9	39.32	− 2	15.95	− 8
15	18.03	+ 6	10.90	− 7	74.26	+14	33.28	− 8	39.28	− 1	16.31	− 9
16	17.68	+ 8	11.08	− 3	73.25	+25	33.54	− 5	39.23	+ 1	16.66	− 8
17	17.32	+ 8	11.26	+ 1	72.22	+31	33.80	− 1	39.18	+ 2	17.02	− 4
18	16.96	+ 7	11.43	+ 5	71.18	+29	34.05	+ 3	39.12	+ 3	17.37	0
19	16.60	+ 3	11.60	+ 8	70.12	+20	34.30	+ 7	39.07	+ 3	17.72	+ 4
20	16.23	− 1	11.77	+ 9	69.04	+ 5	34.55	+ 9	39.01	+ 3	18.08	+ 8
21	15.86	− 5	11.93	+ 8	67.95	−11	34.79	+ 9	38.95	+ 1	18.42	+ 9
22	15.48	− 8	12.09	+ 5	66.84	−26	35.03	+ 7	38.88	0	18.77	+ 9
23	15.11	−10	12.24	+ 1	65.72	−35	35.26	+ 3	38.82	− 2	19.12	+ 7
24	14.73	− 9	12.39	− 3	64.59	−38	35.49	− 1	38.75	− 3	19.46	+ 4
25	14.35	− 7	12.54	− 6	63.44	−33	35.72	− 4	38.68	− 4	19.80	0
26	13.97	− 4	12.68	− 8	62.28	−23	35.95	− 7	38.61	− 4	20.15	− 3
27	13.58	− 1	12.82	− 8	61.11	−11	36.17	− 8	38.53	− 3	20.48	− 6
28	13.19	+ 2	12.95	− 7	59.92	+ 3	36.39	− 7	38.45	− 1	20.82	− 7
29	12.80	+ 5	13.08	− 4	58.72	+14	36.60	− 5	38.37	0	21.15	− 6
30	12.40	+ 6	13.20	− 1	57.51	+22	36.81	− 2	38.29	+ 1	21.49	− 5
31	12.00	+ 6	13.32	+ 2	56.28	+26	37.02	0	38.21	+ 2	21.81	− 2
Sept. 1	11.60	+ 6	13.43	+ 5	55.04	+26	37.22	+ 3	38.12	+ 3	22.14	0
2	11.20	+ 4	13.54	+ 7	53.79	+22	37.42	+ 5	38.03	+ 3	22.47	+ 2
3	10.79	+ 2	13.64	+ 7	52.53	+15	37.61	+ 7	37.94	+ 3	22.79	+ 4
4	10.39	− 1	13.74	+ 7	51.26	+ 5	37.80	+ 7	37.84	+ 2	23.11	+ 6
5	9.98	− 3	13.84	+ 5	49.97	− 5	37.99	+ 6	37.74	+ 1	23.44	+ 6
6	9.57	− 4	13.93	+ 2	48.67	−13	38.18	+ 3	37.64	0	23.75	+ 5
7	9.16	− 5	14.02	− 1	47.37	−19	38.36	0	37.54	− 1	24.07	+ 2
8	8.74	− 4	14.10	− 4	46.06	−19	38.53	− 4	37.44	− 2	24.38	− 1
9	8.33	− 2	14.18	− 7	44.73	−14	38.70	− 7	37.33	− 3	24.69	− 4
10	7.91	+ 1	14.25	− 8	43.40	− 4	38.86	− 8	37.22	− 2	24.99	− 7
11	7.49	+ 4	14.32	− 7	42.05	+ 9	39.03	− 8	37.11	− 1	25.29	− 9
12	7.07	+ 7	14.38	− 5	40.70	+20	39.19	− 7	37.00	0	25.59	− 8
13	6.65	+ 8	14.44	− 1	39.33	+28	39.34	− 3	36.89	+ 1	25.89	− 6
14	6.23	+ 7	14.49	+ 3	37.96	+29	39.49	+ 1	36.78	+ 3	26.18	− 2
15	5.81	+ 4	14.54	+ 7	36.58	+23	39.64	+ 6	35.66	+ 3	26.48	+ 2
16	5.38	0	14.58	+ 9	35.19	+10	39.78	+ 9	36.54	+ 3	26.76	+ 7
sec δ, tg δ	86° 37′ 10″		16.958	+16.929	89° 1′ 30″		58.768	+58.759	82° 14′ 20″		7.405	+7.337
	20		16.972	+16.943	40		58.936	+58.927	30		7.408	+7.340

1919	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in ^{s} 0.01	$+85° 49'$	in $''$ 0.01	$1^h 32^m$	in ^{s} 0.01	$+88° 52'$	in $''$ 0.01	$4^h 11^m$	in ^{s} 0.01	$+85° 20'$	in $''$ 0.01
Sept. 16	^{s}52.19	+ 8	$''$36.03	− 1	^{s}49.98	+30	$''$27.93	− 3	^{s}2.53	+ 5	$''$16.74	− 7
17	52.32	+ 9	36.39	+ 3	50.61	+33	28.27	+ 2	2.83	+ 8	16.88	− 4
18	52.44	+ 8	36.75	+ 7	51.23	+28	28.60	+ 6	3.13	+10	17.03	0
19	52.56	+ 5	37.11	+10	51.84	+19	28.94	+ 9	3.42	+ 9	17.17	+ 4
20	52.67	+ 1	37.48	+10	52.43	+ 5	29.29	+10	3.71	+ 7	17.33	+ 7
21	52.78	− 3	37.84	+ 9	53.01	− 9	29.63	+10	4.00	+ 4	17.49	+ 9
22	52.89	− 5	38.21	+ 6	53.57	−19	29.98	+ 7	4.29	+ 1	17.65	+ 9
23	52.99	− 7	38.57	+ 3	54.12	−24	30.32	+ 4	4.58	− 2	17.81	+ 7
24	53.09	− 7	38.94	− 1	54.65	−25	30.67	0	4.87	− 5	17.99	+ 5
25	53.18	− 6	39.31	− 4	55.17	−20	31.03	− 3	5.15	− 6	18.16	+ 1
26	53.27	− 3	39.68	− 6	55.68	−12	31.38	− 5	5.43	− 6	18.34	− 3
27	53.35	− 1	40.05	− 7	56.17	− 3	31.73	− 7	5.71	− 5	18.52	− 5
28	53.43	+ 2	40.43	− 7	56.64	+ 7	32.09	− 7	5.99	− 3	18.71	− 7
29	53.51	+ 4	40.80	− 6	57.10	+15	32.45	− 7	6.26	− 1	18.90	− 8
30	53.58	+ 6	41.18	− 4	57.54	+20	32.81	− 5	6.54	+ 1	19.09	− 8
Okt. 1	53.65	+ 6	41.55	− 2	57.97	+22	33.17	− 3	6.81	+ 3	19.29	− 6
2	53.71	+ 6	41.93	+ 1	58.38	+20	33.53	0	7.08	+ 4	19.49	− 3
3	53.77	+ 4	42.30	+ 3	58.78	+14	33.90	+ 3	7.35	+ 4	19.70	0
4	53.82	+ 1	42.68	+ 4	59.16	+ 4	34.26	+ 4	7.61	+ 3	19.91	+ 3
5	53.87	− 2	43.05	+ 5	59.52	− 8	34.63	+ 5	7.88	+ 1	20.13	+ 6
6	53.92	− 6	43.43	+ 3	59.87	−20	35.00	+ 4	8.14	− 2	20.35	+ 7
7	53.96	− 8	43.81	+ 1	60.20	−28	35.37	+ 2	8.40	− 5	20.57	+ 6
8	54.00	− 9	44.19	− 3	60.51	−31	35.74	− 1	8.66	− 7	20.80	+ 4
9	54.03	− 7	44.56	− 6	60.81	−27	36.11	− 5	8.91	− 8	21.03	+ 1
10	54.06	− 4	44.94	− 8	61.09	−16	36.49	− 7	9.16	− 7	21.26	− 3
11	54.08	0	45.32	− 8	61.36	− 1	36.86	− 8	9.41	− 5	21.50	− 6
12	54.10	+ 4	45.70	− 6	61.61	+14	37.23	− 7	9.65	− 1	21.74	− 8
13	54.11	+ 7	46.07	− 3	61.84	+26	37.61	− 4	9.90	+ 3	21.98	− 8
14	54.12	+ 9	46.45	+ 2	62.06	+32	37.98	0	10.14	+ 7	22.23	− 5
15	54.13	+ 9	46.82	+ 6	62.26	+32	38.36	+ 5	10.38	+ 9	22.48	− 2
16	54.13	+ 7	47.20	+ 9	62.44	+24	38.73	+ 9	10.61	+10	22.73	+ 3
17	54.12	+ 3	47.57	+11	62.61	+11	39.11	+11	10.84	+ 9	22.99	+ 7
18	54.11	− 1	47.95	+10	62.75	− 2	39.48	+11	11.07	+ 6	23.25	+ 9
19	54.10	− 4	48.32	+ 8	62.88	−14	39.86	+ 9	11.30	+ 2	23.51	+10
20	54.08	− 6	48.69	+ 5	63.00	−22	40.23	+ 6	11.52	− 1	23.77	+ 8
21	54.06	− 7	49.06	+ 1	63.09	−24	40.61	+ 2	11.74	− 4	24.04	+ 6
22	54.03	− 6	49.43	− 2	63.16	−22	40.98	− 1	11.96	− 5	24.31	+ 2
23	54.00	− 4	49.80	− 5	63.22	−15	41.36	− 4	12.17	− 6	24.58	− 1
sec δ, tg δ	85° 49′ 40″	13.745	+13.708		88° 52′ 30″	50.933	+50.923		85° 20′ 20″	12.306	+12.265	
	50	13.754	+13.718		40	51.059	+51.049		30	12.313	+12.273	

1919	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 3^m$	in ^{s} 0.01	+87° 10′	in ″ 0.01	$9^h 25^m$	in ^{s} 0.01	+81° 40′	in ″ 0.01	$16^h 53^m$	in ^{s} 0.01	+82° 10′	in ″ 0.01
Sept. 16	20.47	0	17.03	−9	39.14	−2	43.17	−7	64.80	−1	39.62	+9
17	20.96	+6	16.89	−9	39.24	0	42.85	−9	64.62	−2	39.55	+7
18	21.44	+11	16.76	−6	39.34	+3	42.54	−10	64.44	−3	39.48	+4
19	21.94	+15	16.63	−3	39.45	+5	42.23	−8	64.26	−3	39.40	0
20	22.43	+15	16.50	+1	39.55	+6	41.92	−5	64.09	−3	39.32	−4
21	22.92	+13	16.38	+5	39.66	+6	41.61	−1	63.91	−2	39.24	−7
22	23.42	+8	16.26	+7	39.77	+4	41.31	+2	63.73	−1	39.14	−9
23	23.92	+3	16.15	+8	39.88	+3	41.01	+5	63.55	0	39.05	−9
24	24.41	−2	16.04	+7	40.00	+1	40.71	+6	63.38	+1	38.95	−7
25	24.92	−6	15.94	+5	40.11	−1	40.41	+6	63.20	+2	38.84	−4
26	25.42	−9	15.84	+2	40.23	−3	40.12	+5	63.03	+2	38.73	−1
27	25.93	−11	15.74	−1	40.35	−4	39.83	+3	62.85	+2	38.61	+3
28	26.44	−10	15.65	−4	40.47	−4	39.54	+1	62.68	+1	38.49	+6
29	26.95	−8	15.56	−6	40.59	−4	39.26	−1	62.51	+1	38.36	+7
30	27.46	−5	15.48	−7	40.72	−3	38.98	−3	62.33	0	38.23	+8
Okt. 1	27.97	−2	15.41	−7	40.84	−2	38.70	−5	62.16	−1	38.10	+7
2	28.48	+2	15.33	−5	40.97	0	38.43	−5	62.00	−1	37.96	+5
3	29.00	+5	15.27	−3	41.10	+1	38.15	−4	61.83	−2	37.81	+2
4	29.52	+7	15.21	0	41.23	+2	37.88	−2	61.66	−2	37.66	−1
5	30.03	+6	15.15	+4	41.36	+3	37.61	+1	61.50	−1	37.51	−4
6	30.55	+4	15.10	+7	41.50	+3	37.35	+4	61.33	0	37.35	−7
7	31.07	0	15.05	+8	41.64	+2	37.09	+7	61.17	+1	37.18	−8
8	31.59	−5	15.01	+8	41.78	0	36.83	+9	61.01	+2	37.01	−7
9	32.11	−9	14.97	+6	41.91	−2	36.58	+8	60.85	+3	36.84	−4
10	32.63	−12	14.93	+2	42.05	−4	36.33	+6	60.69	+3	36.66	−1
11	33.15	−11	14.91	−2	42.20	−4	36.08	+2	60.53	+2	36.48	+4
12	33.67	−8	14.88	−6	42.34	−4	35.84	−2	60.37	+1	36.29	+7
13	34.19	−2	14.86	−8	42.48	−3	35.60	−6	60.21	0	36.10	+8
14	34.71	+4	14.85	−9	42.63	0	35.36	−9	60.06	−2	35.90	+8
15	35.23	+10	14.84	−8	42.77	+2	35.13	−10	59.91	−3	35.70	+5
16	35.74	+15	14.84	−5	42.92	+4	34.90	−9	59.75	−4	35.50	+1
17	36.26	+16	14.84	−1	43.07	+5	34.68	−7	59.60	−3	35.29	−3
18	36.78	+15	14.84	+3	43.22	+6	34.46	−3	59.45	−3	35.08	−6
19	37.29	+11	14.85	+6	43.37	+5	34.24	+1	59.30	−2	34.86	−8
20	37.81	+6	14.87	+7	43.52	+4	34.03	+4	59.15	0	34.64	−9
21	38.32	0	14.89	+7	43.68	+2	33.82	+6	59.01	+1	34.41	−8
22	38.84	−4	14.91	+6	43.83	0	33.62	+6	58.87	+2	34.18	−5
23	39.35	−8	14.94	+3	43.99	−2	33.42	+5	58.73	+2	33.95	−2
sec δ, tg δ	87° 10′ 10″	20.250	+20.225		81° 40′ 30″	6.907	+6.834		82° 10′ 30″	7.345	+7.277	
	20	20.270	+20.245		40	6.909	+6.836		40	7.348	+7.279	

1919	δ Ursae minoris 4ᵐ.3				λ Ursae minoris 6ᵐ.8				76 Draconis 6ᵐ.0			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 57^m$	in ^{s} 0.01	+86° 37′	in ″ 0.01	$18^h 58^m$	in ^{s} 0.01	+89° 1′	in ″ 0.01	$20^h 48^m$	in ^{s} 0.01	+82° 14′	in ″ 0.01
ept. 16	65.38	0	14.58	+ 9	95.19	+10	39.78	+ 9	36.54	+ 3	26.76	+ 7
17	64.96	− 4	14.62	+ 9	93.79	− 6	39.92	+ 9	36.42	+ 2	27.05	+ 9
18	64.53	− 7	14.65	+ 6	92.38	−22	40.05	+ 8	36.30	0	27.33	+10
19	64.11	−10	14.68	+ 2	90.97	−34	40.18	+ 5	36.18	− 1	27.61	+ 8
20	63.68	−10	14.70	− 2	89.55	−39	40.30	+ 1	36.05	− 3	27.88	+ 5
21	63.26	− 8	14.72	− 5	88.13	−36	40.42	− 3	35.92	− 4	28.15	+ 1
22	62.83	− 6	14.73	− 8	86.70	−28	40.53	− 6	35.79	− 4	28.42	− 2
23	62.40	− 2	14.74	− 8	85.26	−16	40.64	− 7	35.66	− 3	28.68	− 5
24	61.97	+ 1	14.74	− 7	83.82	− 2	40.74	− 7	35.53	− 2	28.94	− 6
25	61.55	+ 4	14.74	− 5	82.37	+10	40.84	− 6	35.40	− 1	29.20	− 6
26	61.12	+ 6	14.73	− 2	80.92	+20	40.94	− 3	35.26	+ 1	29.45	− 5
27	60.69	+ 6	14.72	+ 1	79.46	+25	41.03	0	35.12	+ 2	29.70	− 3
28	60.26	+ 6	14.70	+ 4	78.00	+26	41.11	+ 2	34.98	+ 3	29.94	− 1
29	59.83	+ 5	14.68	+ 6	76.53	+24	41.19	+ 5	34.84	+ 3	30.18	+ 2
30	59.40	+ 3	14.66	+ 7	75.06	+18	41.27	+ 6	34.69	+ 3	30.42	+ 4
kt. 1	58.98	+ 1	14.63	+ 7	73.59	+10	41.34	+ 7	34.55	+ 2	30.65	+ 5
2	58.55	− 2	14.59	+ 6	72.11	0	41.41	+ 6	34.40	+ 2	30.88	+ 6
3	58.13	− 3	14.55	+ 4	70.63	− 9	41.47	+ 4	34.26	0	31.10	+ 5
4	57.70	− 4	14.50	0	69.14	−15	41.52	+ 1	34.11	− 1	31.32	+ 3
5	57.28	− 4	14.45	− 3	67.66	−17	41.57	− 2	33.96	− 2	31.53	0
6	56.86	− 2	14.39	− 6	66.17	−14	41.62	− 5	33.81	− 3	31.74	− 3
7	56.44	+ 1	14.33	− 8	64.68	− 6	41.66	− 8	33.66	− 3	31.95	− 7
8	56.02	+ 3	14.26	− 8	63.19	+ 5	41.69	− 9	33.51	− 2	32.15	− 8
9	55.60	+ 6	14.19	− 6	61.70	+17	41.72	− 8	33.35	− 1	32.34	− 9
10	55.18	+ 8	14.12	− 3	60.21	+26	41.75	− 4	33.20	+ 1	32.54	− 7
11	54.76	+ 8	14.04	+ 1	58.71	+30	41.77	0	33.04	+ 2	32.72	− 4
12	54.35	+ 5	13.95	+ 5	57.22	+26	41.79	+ 4	32.88	+ 3	32.90	+ 1
13	53.93	+ 2	13.86	+ 8	55.73	+15	41.80	+ 7	32.73	+ 3	33.08	+ 5
14	53.52	− 2	13.76	+ 9	54.24	− 1	41.80	+ 9	32.57	+ 2	33.26	+ 9
15	53.11	− 6	13.66	+ 7	52.75	−18	41.80	+ 9	32.40	+ 1	33.42	+10
16	52.71	− 9	13.55	+ 4	51.26	−31	41.80	+ 7	32.24	− 1	33.59	+ 9
17	52.30	−10	13.44	0	49.78	−38	41.79	+ 3	32.08	− 2	33.75	+ 7
18	51.90	−10	13.33	− 4	48.30	−40	41.78	− 1	31.92	− 3	33.90	+ 3
19	51.49	− 7	13.21	− 7	46.81	−34	41.76	− 5	31.76	− 4	34.05	0
20	51.10	− 4	13.08	− 8	45.33	−23	41.73	− 7	31.59	− 3	34.19	− 4
21	50.70	0	12.95	− 8	43.85	− 9	41.70	− 8	31.43	− 3	34.33	− 6
22	50.31	+ 3	12.82	− 6	42.38	+ 5	41.67	− 6	31.26	− 1	34.46	− 6
23	49.92	+ 5	12.68	− 3	40.91	+16	41.63	− 4	31.10	0	34.59	− 6
δ, tg δ	86° 37′ 10″	16.958	+16.929		89° 1′ 40″	58.936	+58.927		82° 14′ 30″	7.408	+7.340	
	20	16.972	+16.943		50	59.104	+59.096		40	7.410	+7.343	

1919	43 Hev. Cephei 4^m.3				α Ursae minoris 2^m.0				Gr. 750 6^m.8			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	0^{h}57^m	in ^{s} 0.01	+85°49′	in ″ 0.01	1^{h}32^m	in ^{s} 0.01	+88°52′	in ″ 0.01	4^{h}11^m	in ^{s} 0.01	+85°20′	in ″ 0.01
Okt. 23	54.00	−4	49.80	−5	63.22	−15	41.36	−4	12.17	−6	24.58	−1
24	53.96	−2	50.17	−6	63.26	−6	41.73	−6	12.38	−5	24.86	−4
25	53.92	+1	50.53	−7	63.29	+3	42.11	−7	12.59	−4	25.14	−7
26	53.88	+4	50.90	−6	63.30	+12	42.48	−7	12.79	−2	25.42	−8
27	53.83	+5	51.26	−5	63.29	+19	42.85	−6	12.99	0	25.70	−8
28	53.77	+6	51.63	−2	63.27	+22	43.23	−3	13.18	+2	25.99	−7
29	53.71	+6	51.98	0	63.22	+22	43.60	−1	13.37	+4	26.28	−4
30	53.65	+5	52.34	+2	63.16	+17	43.97	+2	13.56	+4	26.58	−1
31	53.58	+2	52.70	+4	63.08	+8	44.34	+4	13.74	+4	26.87	+2
Nov. 1	53.51	−1	53.05	+4	62.98	−4	44.71	+5	13.92	+2	27.17	+5
2	53.43	−5	53.40	+4	62.86	−16	45.08	+4	14.10	−1	27.47	+7
3	53.35	−7	53.76	+1	62.73	−26	45.44	+2	14.27	−4	27.77	+7
4	53.26	−9	54.10	−2	62.57	−32	45.81	−1	14.44	−7	28.08	+5
5	53.17	−8	54.45	−5	62.40	−31	46.18	−4	14.61	−8	28.39	+2
6	53.07	−6	54.79	−8	62.21	−22	46.54	−7	14.77	−9	28.70	−2
7	52.97	−2	55.13	−9	62.01	−9	46.90	−8	14.93	−7	29.01	−5
8	52.87	+2	55.47	−8	61.78	+7	47.26	−8	15.08	−3	29.32	−8
9	52.76	+6	55.81	−5	61.54	+21	47.62	−6	15.23	+1	29.64	−8
10	52.65	+9	56.14	0	61.28	+31	47.97	−2	15.37	+5	29.95	−7
11	52.53	+9	56.47	+4	61.00	+31	48.32	+3	15.51	+9	30.27	−3
12	52.41	+8	56.80	+8	60.71	+28	48.67	+7	15.65	+10	30.59	+1
13	52.28	+5	57.12	+11	60.39	+17	49.02	+10	15.78	+10	30.91	+5
14	52.15	+1	57.44	+11	60.06	+4	49.37	+11	15.91	+8	31.23	+8
15	52.02	−3	57.76	+10	59.71	−9	49.71	+10	16.03	+4	31.56	+10
16	51.88	−5	58.07	+7	59.35	−19	50.05	+8	16.15	+1	31.89	+9
17	51.74	−7	58.38	+3	58.96	−24	50.39	+4	16.26	−2	32.21	+7
18	51.59	−6	58.69	−1	58.56	−23	50.73	0	16.37	−5	32.54	+4
19	51.44	−5	58.99	−4	58.15	−17	51.07	−3	16.47	−5	32.87	+1
20	51.28	−2	59.29	−6	57.71	−9	51.40	−5	16.57	−5	33.20	−3
21	51.12	0	59.59	−6	57.26	+1	51.73	−7	16.67	−4	33.53	−6
22	50.96	+3	59.88	−6	56.78	+9	52.06	−7	16.76	−2	33.86	−7
23	50.79	+5	60.17	−5	56.29	+17	52.38	−6	16.85	0	34.19	−8
24	50.62	+6	60.46	−3	55.79	+22	52.70	−4	16.93	+2	34.53	−7
25	50.44	+6	60.74	−1	55.26	+23	53.01	−2	17.01	+4	34.86	−5
26	50.26	+5	61.02	+2	54.72	+19	53.32	+1	17.08	+4	35.19	−2
27	50.08	+3	61.29	+3	54.16	+12	53.63	+3	17.14	+4	35.52	+1
28	49.89	0	61.56	+4	53.59	+1	53.93	+4	17.21	+3	35.85	+4
29	49.70	−3	61.82	+4	53.00	−11	54.23	+5	17.26	0	36.18	+6
sec δ, tg δ	85°49′50″	13.754	+13.718		88°52′40″	51.059	+51.049		85°20′30″	12.313	+12.273	
	60	13.763	+13.727		50	51.186	+51.176		40	12.321	+12.280	

1919	51 Hev. Cephei $5^m.2$				1 Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h 3^m$ s	in 0.01 s	+87° 10′ ″	in 0.01 ″	$9^h 25^m$ s	in 0.01 s	+81° 40′ ″	in 0.01 ″	$16^h 53^m$ s	in 0.01 s	+82° 10′ ″	in 0.01 ″
Okt. 23	39.35	− 8	14.94	+ 3	43.99	− 2	33.42	+ 5	58.73	+ 2	33.95	− 2
24	39.86	−10	14.98	0	44.14	− 3	33.23	+ 4	58.59	+ 2	33.71	+ 2
25	40.37	−10	15.02	− 3	44.30	− 4	33.04	+ 1	58.45	+ 2	33.47	+ 5
26	40.88	− 9	15.06	− 5	44.46	− 4	32.85	− 1	58.31	+ 1	33.22	+ 7
27	41.39	− 6	15.11	− 6	44.62	− 4	32.67	− 3	58.18	0	32.97	+ 8
28	41.89	− 3	15.17	− 7	44.78	− 3	32.50	− 4	58.05	0	32.71	+ 8
29	42.40	+ 1	15.23	− 6	44.94	− 1	32.32	− 5	57.92	− 1	32.46	+ 6
30	42.90	+ 4	15.29	− 4	45.10	+ 1	32.16	− 5	57.79	− 1	32.19	+ 4
31	43.40	+ 6	15.36	− 1	45.27	+ 2	32.00	− 3	57.67	− 2	31.93	+ 1
Nov. 1	43.90	+ 6	15.44	+ 3	45.43	+ 3	31.84	0	57.55	− 1	31.66	− 3
2	44.39	+ 4	15.52	+ 6	45.60	+ 3	31.68	+ 3	57.43	0	31.39	− 6
3	44.89	+ 1	15.60	+ 8	45.76	+ 2	31.54	+ 6	57.31	+ 1	31.11	− 7
4	45.38	− 4	15.69	+ 9	45.93	+ 1	31.39	+ 9	57.19	+ 2	30.83	− 7
5	45.87	− 9	15.79	+ 8	46.10	− 1	31.25	+ 9	57.07	+ 3	30.55	− 5
6	46.36	−12	15.89	+ 4	46.27	− 3	31.12	+ 8	56.96	+ 3	30.26	− 2
7	46.84	−13	15.99	0	46.44	− 4	30.99	+ 5	56.85	+ 3	29.97	+ 2
8	47.32	−10	16.10	− 4	46.61	− 5	30.87	0	56.74	+ 2	29.68	+ 6
9	47.79	− 6	16.21	− 7	46.78	− 4	30.75	− 4	56.64	+ 1	29.38	+ 8
10	48.26	+ 1	16.33	− 9	46.96	− 2	30.64	− 8	56.54	− 1	29.08	+ 8
11	48.73	+ 8	16.45	− 9	47.13	+ 1	30.53	−10	56.44	− 3	28.78	+ 7
12	49.20	+13	16.58	− 6	47.30	+ 3	30.43	−10	56.34	− 3	28.47	+ 3
13	49.66	+16	16.72	− 2	47.47	+ 5	30.34	− 8	56.25	− 4	28.17	− 1
14	50.12	+16	16.86	+ 2	47.64	+ 6	30.25	− 5	56.15	− 3	27.86	− 5
15	50.57	+14	17.00	+ 5	47.81	+ 6	30.16	− 1	56.07	− 2	27.55	− 8
16	51.02	+ 9	17.15	+ 7	47.99	+ 4	30.08	+ 2	55.98	− 1	27.23	− 9
17	51.46	+ 3	17.30	+ 8	48.16	+ 3	30.01	+ 5	55.90	0	26.91	− 9
18	51.90	− 2	17.46	+ 6	48.33	+ 1	29.94	+ 6	55.81	+ 1	26.59	− 7
19	52.34	− 6	17.62	+ 4	48.50	− 1	29.87	+ 5	55.74	+ 2	26.26	− 3
20	52.77	− 9	17.79	+ 1	48.68	− 3	29.82	+ 4	55.66	+ 2	25.93	0
21	53.20	−10	17.96	− 2	48.85	− 4	29.76	+ 2	55.59	+ 2	25.60	+ 3
22	53.62	− 9	18.14	− 4	49.02	− 4	29.71	0	55.52	+ 1	25.27	+ 6
23	54.04	− 7	18.32	− 6	49.19	− 4	29.67	− 2	55.45	0	24.94	+ 7
24	54.45	− 3	18.50	− 7	49.36	− 3	29.63	− 4	55.38	0	24.61	+ 7
25	54.86	0	18.69	− 6	49.53	− 1	29.60	− 5	55.32	− 1	24.27	+ 7
26	55.26	+ 3	18.88	− 5	49.70	0	29.58	− 5	55.26	− 1	23.93	+ 5
27	55.66	+ 6	19.08	− 2	49.87	+ 1	29.56	− 4	55.20	− 2	23.59	+ 2
28	56.05	+ 6	19.28	+ 1	50.04	+ 3	29.54	− 1	55.15	− 1	23.25	− 1
29	56.44	+ 5	19.49	+ 5	50.21	+ 3	29.54	+ 2	55.10	− 1	22.90	− 4
sec δ, tg δ	87° 10′ 10″		20.250	+20.225	81° 40′ 30″		6.907	+6.834	82° 10′ 20″		7.342	+7.274
	20		20.270	+20.245	40		6.909	+6.836	30		7.345	+7.277

1919	δ Ursae minoris $4^m.3$				λ Ursae minoris $6^m.8$				76 Draconis $6^m.0$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 57^m$ s	in s 0.01	+86° 37′ ″	in ″ 0.01	$18^h 57^m$ s	in s 0.01	+89° 1′ ″	in ″ 0.01	$20^h 48^m$ s	in s 0.01	+82° 14′ ″	in ″ 0.01
Okt. 23	49.92	+ 5	12.68	− 3	100.91	+16	41.63	− 4	31.10	0	34.59	− 6
24	49.53	+ 6	12.53	0	99.45	+23	41.58	− 2	30.93	+ 1	34.71	− 4
25	49.14	+ 6	12.38	+ 3	97.99	+26	41.53	+ 1	30.76	+ 2	34.83	− 2
26	48.76	+ 5	12.23	+ 5	96.54	+25	41.47	+ 4	30.59	+ 3	34.94	+ 1
27	48.38	+ 3	12.07	+ 7	95.09	+20	41.41	+ 6	30.42	+ 3	35.05	+ 3
28	48.00	+ 1	11.91	+ 7	93.65	+12	41.34	+ 7	30.25	+ 3	35.15	+ 5
29	47.63	− 1	11.74	+ 7	92.21	+ 3	41.27	+ 7	30.08	+ 2	35.24	+ 6
30	47.26	− 3	11.57	+ 5	90.78	− 5	41.19	+ 5	29.91	+ 1	35.33	+ 5
31	46.89	− 4	11.39	+ 2	89.35	−13	41.11	+ 2	29.74	0	35.42	+ 4
Nov. 1	46.53	− 4	11.21	− 2	87.93	−16	41.03	− 1	29.57	− 1	35.49	+ 1
2	46.17	− 3	11.02	− 5	86.52	−15	40.94	− 4	29.40	− 2	35.57	− 2
3	45.82	0	10.83	− 7	85.12	− 8	40.84	− 7	29.23	− 3	35.64	− 6
4	45.46	+ 3	10.64	− 8	83.72	+ 3	40.74	− 9	29.05	− 2	35.70	− 8
5	45.12	+ 6	10.44	− 7	82.34	+15	40.64	− 8	28.88	− 1	35.76	− 9
6	44.77	+ 8	10.24	− 4	80.97	+26	40.53	− 6	28.71	0	35.81	− 9
7	44.43	+ 9	10.03	0	79.60	+32	40.41	− 2	28.54	+ 2	35.86	− 6
8	44.10	+ 7	9.82	+ 4	78.25	+30	40.29	+ 2	28.37	+ 3	35.90	− 2
9	43.77	+ 4	9.60	+ 7	76.90	+22	40.16	+ 6	28.19	+ 3	35.93	+ 3
10	43.44	0	9.38	+ 9	75.56	+ 7	40.03	+ 9	28.02	+ 3	35.96	+ 7
11	43.12	− 5	9.16	+ 8	74.24	−10	39.89	+ 9	27.85	+ 2	35.98	+10
12	42.80	− 8	8.93	+ 6	72.93	−26	39.75	+ 8	27.68	0	36.00	+10
13	42.49	−11	8.70	+ 2	71.62	−38	39.60	+ 4	27.51	− 2	36.01	+ 8
14	42.18	−11	8.46	− 2	70.33	−42	39.45	0	27.34	− 3	36.02	+ 5
15	41.88	− 9	8.22	− 6	69.06	−39	39.29	− 3	27.17	− 4	36.02	+ 1
16	41.58	− 6	7.97	− 8	67.79	−29	39.13	− 6	27.00	− 4	36.01	− 2
17	41.29	− 2	7.72	− 8	66.54	−16	38.96	− 7	26.83	− 3	36.00	− 5
18	41.00	+ 1	7.47	− 7	65.30	− 2	38.79	− 7	26.67	− 2	35.98	− 6
19	40.72	+ 4	7.21	− 4	64.07	+10	38.61	− 5	26.50	− 1	35.95	− 6
20	40.44	+ 5	6.96	− 1	62.86	+19	38.43	− 2	26.33	+ 1	35.92	− 5
21	40.17	+ 6	6.69	+ 2	61.66	+24	38.25	+ 1	26.17	+ 2	35.89	− 2
22	39.90	+ 5	6.43	+ 5	60.48	+24	38.06	+ 3	26.00	+ 3	35.85	0
23	39.64	+ 4	6.16	+ 6	59.31	+20	37.87	+ 5	25.83	+ 3	35.80	+ 2
24	39.38	+ 2	5.89	+ 7	58.16	+14	37.67	+ 7	25.67	+ 3	35.75	+ 4
25	39.13	0	5.61	+ 7	57.02	+ 5	37.47	+ 7	25.50	+ 2	35.69	+ 5
26	38.88	− 2	5.33	+ 5	55.90	− 4	37.26	+ 6	25.34	+ 1	35.62	+ 6
27	38.64	− 4	5.05	+ 3	54.80	−11	37.05	+ 4	25.18	0	35.55	+ 5
28	38.41	− 4	4.76	0	53.71	−16	36.83	+ 1	25.02	− 1	35.47	+ 2
29	38.19	− 3	4.47	− 4	52.64	−16	36.61	− 3	24.85	− 2	35.39	− 1
sec δ, tg δ	86° 37′ 0″		16.945	+16.915	89° 1′ 30″		58.768	+58.759	82° 14′ 30″		7.408	+7.340
	10		16.958	+16.929	40		58.936	+58.927	40		7.410	+7.343

1919	43 Hev. Cephei $4^m.3$				α Ursae minoris $2^m.0$				Gr. 750 $6^m.8$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$0^h 57^m$	in ^{s} 0.01	$+85° 50'$	in $''$ 0.01	$1^h 32^m$	in ^{s} 0.01	$+88° 52'$	in $''$ 0.01	$4^h 11^m$	in ^{s} 0.01	$+85° 20'$	in $''$ 0.01
Nov. 29	49.70	−3	1.82	+4	53.00	−11	54.23	+5	17.26	0	36.18	+6
30	49.50	−6	2.08	+2	52.40	−22	54.53	+3	17.31	−3	36.52	+7
Dez. 1	49.31	−8	2.33	−1	51.78	−30	54.82	0	17.36	−6	36.85	+6
2	49.10	−9	2.58	−4	51.14	−32	55.11	−3	17.41	−9	37.19	+3
3	48.90	−8	2.83	−7	50.49	−27	55.40	−6	17.44	−9	37.52	0
4	48.69	−4	3.07	−9	49.82	−17	55.68	−9	17.48	−8	37.86	−4
5	48.48	0	3.31	−9	49.14	−1	55.96	−9	17.51	−6	38.19	−7
6	48.26	+4	3.54	−7	48.44	+14	56.23	−8	17.53	−2	38.52	−8
7	48.04	+7	3.76	−3	47.72	+26	56.50	−4	17.55	+3	38.86	−8
8	47.82	+9	3.98	+2	46.99	+32	56.76	0	17.56	+7	39.19	−5
9	47.59	+8	4.20	+6	46.25	+30	57.02	+5	17.57	+9	39.52	−1
10	47.36	+6	4.41	+10	45.49	+22	57.28	+9	17.57	+10	39.85	+3
11	47.13	+2	4.61	+11	44.72	+9	57.53	+11	17.57	+9	40.18	+7
12	46.89	−1	4.81	+11	43.94	−4	57.77	+11	17.56	+6	40.50	+10
13	46.65	−4	5.01	+8	43.14	−15	58.01	+9	17.55	+2	40.83	+10
14	46.41	−6	5.20	+5	42.33	−21	58.25	+6	17.53	−1	41.16	+8
15	46.17	−7	5.38	+1	41.50	−23	58.48	+2	17.51	−4	41.48	+6
16	45.92	−5	5.56	−2	40.66	−19	58.70	−1	17.48	−5	41.80	+2
17	45.67	−3	5.73	−5	39.80	−12	58.92	−4	17.45	−5	42.12	−1
18	45.42	−1	5.89	−6	38.94	−2	59.13	−6	17.41	−4	42.44	−4
19	45.16	+2	6.05	−6	38.06	+7	59.34	−6	17.37	−2	42.75	−7
20	44.90	+4	6.20	−5	37.17	+15	59.55	−6	17.32	0	43.07	−7
21	44.64	+6	6.35	−3	36.26	+21	59.75	−4	17.27	+2	43.38	−7
22	44.38	+6	6.49	−1	35.35	+23	59.94	−2	17.21	+3	43.69	−6
23	44.12	+6	6.63	+1	34.42	+21	60.13	0	17.14	+5	44.00	−3
24	43.86	+4	6.76	+3	33.49	+16	60.31	+3	17.07	+5	44.31	0
25	43.59	+2	6.88	+5	32.54	+6	60.49	+5	17.00	+4	44.61	+3
26	43.32	−1	7.00	+5	31.59	−5	60.66	+5	16.92	+2	44.91	+5
27	43.05	−5	7.11	+3	30.63	−18	60.82	+4	16.84	−1	45.21	+7
28	42.77	−8	7.22	+1	29.65	−27	60.98	+2	16.76	−4	45.51	+6
29	42.50	−9	7.32	−3	28.67	−32	61.13	−1	16.67	−7	45.80	+5
30	42.22	−8	7.41	−6	27.68	−30	61.28	−5	16.57	−9	46.09	+1
31	41.95	−6	7.50	−9	26.68	−22	61.42	−8	16.47	−9	46.37	−3
32	41.67	−2	7.58	−10	25.67	−8	61.55	−10	16.36	−7	46.66	−6

sec δ, tg δ						
	85° 50′ 0″	13.763 +13.727	88° 52′ 50″	51.186 +51.176	85° 20′ 40″	12.321 +12.280
	10	13.772 +13.736	60	51.313 +51.303	50	12.328 +12.287

1919	51 Hev. Cephei $5^m.2$				I Hev. Draconis $4^m.3$				ε Ursae minoris $4^m.2$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$7^h\ 3^m$ s	in s 0.01	+87° 10′ ″	in ″ 0.01	$9^h 25^m$ s	in s 0.01	+81° 40′ ″	in ″ 0.01	$16^h 53^m$ s	in s 0.01	+82° 10′ ″	in ″ 0.01
Nov. 29	56.44	+ 5	19.49	+ 5	50.21	+ 3	29.54	+ 2	55.10	− 1	22.90	− 4
30	56.82	+ 2	19.70	+ 7	50.38	+ 2	29.54	+ 5	55.06	0	22.56	− 7
Dez. 1	57.19	− 2	19.91	+ 9	50.55	+ 1	29.54	+ 8	55.01	+ 2	22.21	− 7
2	57.56	− 8	20.13	+ 8	50.72	− 1	29.55	+10	54.97	+ 3	21.87	− 6
3	57.92	−12	20.35	+ 6	50.89	− 3	29.57	+ 9	54.93	+ 3	21.52	− 3
4	58.28	−14	20.58	+ 2	51.06	− 4	29.59	+ 7	54.89	+ 3	21.17	0
5	58.63	−13	20.81	− 2	51.23	− 5	29.62	+ 3	54.86 54.83	+ 3 + 1	20.82 20.47	+ 4 + 7
6	58.97	− 9	21.05	− 6	51.40	− 4	29.65	− 2	54.81	0	20.12	+ 8
7	59.31	− 3	21.28	− 8	51.56	− 3	29.69	− 6	54.78	− 2	19.77	+ 8
8	59.64	+ 4	21.53	− 9	51.73	0	29.73	− 9	54.77	− 3	19.41	+ 5
9	59.96	+11	21.77	− 7	51.90	+ 2	29.78	−10	54.75	− 4	19.06	+ 1
10	60.27	+15	22.02	− 4	52.06	+ 4	29.84	− 9	54.74	− 3	18.71	− 3
11	60.58	+17	22.27	0	52.22	+ 6	29.90	− 6	54.73	− 3	18.36	− 7
12	60.88	+15	22.53	+ 4	52.38	+ 6	29.96	− 3	54.72	− 2	18.00	− 9
13	61.18	+11	22.79	+ 6	52.54	+ 5	30.04	+ 1	54.71	0	17.65	− 9
14	61.47	+ 6	23.05	+ 7	52.70	+ 4	30.12	+ 4	54.71	+ 1	17.29	− 7
15	61.75	0	23.32	+ 7	52.86	+ 2	30.20	+ 5	54.71	+ 2	16.94	− 5
16	62.02	− 4	23.59	+ 5	53.01	0	30.29	+ 5	54.72	+ 2	16.59	− 1
17	62.29	− 7	23.86	+ 2	53.17	− 2	30.39	+ 4	54.73	+ 2	16.23	+ 2
18	62.54	− 9	24.13	− 1	53.32	− 3	30.49	+ 3	54.74	+ 1	15.88	+ 5
19	62.79	− 9	24.41	− 4	53.47	− 4	30.60	0	54.75	+ 1	15.53	+ 7
20	63.03	− 7	24.69	− 6	53.62	− 4	30.72	− 2	54.77	0	15.18	+ 7
21	63.27	− 4	24.97	− 7	53.77	− 3	30.83	− 4	54.79	− 1	14.83	+ 7
22	63.49	− 1	25.26	− 7	53.92	− 2	30.96	− 5	54.81	− 1	14.48	+ 5
23	63.71	+ 3	25.55	− 6	54.06	0	31.09	− 5	54.84	− 2	14.13	+ 3
24	63.93	+ 6	25.84	− 3	54.21	+ 1	31.22	− 5	54.87	− 2	13.79	0
25	64.13	+ 7	26.13	0	54.36	+ 2	31.36	− 3	54.90	− 1	13.44	− 3
26	64.32	+ 7	26.42	+ 3	54.50	+ 3	31.50	0	54.94	0	13.10	− 6
27	64.51	+ 4	26.72	+ 6	54.64	+ 3	31.65	+ 4	54.98	+ 1	12.75	− 7
28	64.68	0	27.02	+ 8	54.78	+ 2	31.81	+ 7	55.02	+ 2	12.42	− 7
29	64.85	− 5	27.32	+ 9	54.92	0	31.97	+ 9	55.07	+ 3	12.08	− 5
30	65.01	−10	27.62	+ 7	55.05	− 2	32.13	+10	55.12	+ 3	11.74	− 1
31	65.16	−14	27.93	+ 4	55.19	− 4	32.30	+ 8	55.17	+ 3	11.41	+ 3
32	65.30	−14	28.23	0	55.32	− 5	32.48	+ 5	55.22	+ 2	11.08	+ 6
sec δ, tg δ	87° 10′ 20″	20.270	+20.245		81° 40′ 30″	6.907	+6.834		82° 10′ 10″	7.340	+7.271	
	30	20.290	+20.265		40	6.909	+6.836		20	7.342	+7.274	

1919	δ Ursae minoris 4m.3				λ Ursae minoris 6m.8				76 Draconis 6m.0			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$17^h 57^m$	in s 0.01	+86° 36′	in ″ 0.01	$18^h 57^m$	in s 0.01	+89° 1′	in ″ 0.01	$20^h 48^m$	in s 0.01	+82° 14′	in ″ 0.01
Nov. 29	38.19	−3	64.47	−4	52.64	−16	36.61	−3	24.85	−2	35.39	−1
30	37.97	−1	64.18	−7	51.59	−11	36.39	−6	24.69	−3	35.30	−4
Dez. 1	37.76	+2	63.88	−8	50.56	−1	36.16	−8	24.54	−2	35.21	−7
2	37.55	+5	63.59	−8	49.54	+12	35.93	−9	24.38	−1	35.11	−9
3	37.35	+8	63.29	−6	48.55	+24	35.69	−8	24.22	0	35.00	−10
4	37.15	+9	62.98	−2	47.57	+33	35.45	−4	24.07	+1	34.89	−8
5	36.96	+9	62.68	+2	46.60	+35	35.20	0	23.91	+3	34.77	−4
6	36.78	+6	62.37	+6	45.66	+29	34.95	+4	23.76	+3	34.65	0
7	36.60	+2	62.06	+8	44.74	+16	34.70	+7	23.61	+3	34.52	+5
8	36.44	−2	61.75	+9	43.84	−1	34.45	+9	23.46	+2	34.38	+8
9	36.27	−7	61.43	+7	42.96	−18	34.19	+8	23.31	+1	34.24	+10
10	36.12	−9	61.11	+3	42.10	−33	33.93	+5	23.17	−1	34.10	+9
11	35.97	−11	60.79	−1	41.26	−41	33.66	+2	23.02	−3	33.94	+7
12	35.83	−10	60.47	−5	40.44	−41	33.39	−2	22.88	−4	33.79	+3
13	35.69	−7	60.15	−7	39.65	−34	33.12	−5	22.74	−4	33.63	−1
14	35.57	−4	59.83	−8	38.87	−23	32.84	−7	22.60	−3	33.46	−4
15	35.44	0	59.50	−8	38.12	−9	32.56	−7	22.46	−2	33.29	−6
16	35.33	+3	59.17	−6	37.39	+4	32.27	−6	22.33	−1	33.11	−6
17	35.22	+5	58.84	−2	36.68	+15	31.98	−3	22.20	0	32.93	−5
18	35.12	+5	58.51	+1	36.00	+21	31.69	−1	22.06	+1	32.74	−3
19	35.03	+5	58.18	+4	35.34	+23	31.40	+2	21.94	+2	32.55	0
20	34.94	+4	57.85	+6	34.70	+20	31.11	+5	21.81	+3	32.35	+2
21	34.87 34.80	+2 0	57.52 57.19	+7 +7	34.08	+15	30.82	+6	21.68	+3	32.15	+4
22	34.73	−2	56.85	+6	33.48	+7	30.52	+7	21.56	+2	31.94	+6
23	34.68	−4	56.51	+4	32.91	−2	30.22	+6	21.44	+2	31.73	+6
24	34.63	−4	56.18	+1	32.36	−10	29.91	+5	21.31	0	31.51	+5
25	34.59	−4	55.84	−2	31.84	−16	29.61	+2	21.20	−1	31.29	+4
26	34.56	−2	55.50	−5	31.34	−18	29.30	−1	21.08	−2	31.06	+1
27	34.53	0	55.17	−8	30.87	−14	28.99	−5	20.96	−2	30.83	−3
28	34.51	+4	54.83	−8	30.42	−6	28.68	−8	20.85	−3	30.59	−6
29	34.50	+7	54.50	−7	30.00	+6	28.37	−9	20.74	−2	30.35	−9
30	34.49	+9	54.16	−4	29.60	+19	28.06	−8	20.64	−1	30.11	−10
31	34.49	+10	53.83	0	29.23	+30	27.74	−6	20.53	+1	29.86	−9
32	34.50	+8	53.49	+4	28.88	+36	27.42	−2	20.43	+2	29.61	−6
sec δ, tg δ	86° 36′ 50″ 60	16.931 16.945	+16.901 +16.915		89° 1′ 30″ 40	58.768 58.936	+58.759 +58.927		82° 14′ 30″ 40	7.408 7.410	+7.340 +7.343	

1919	Octantis 4 G. 6ᵐ				ζ Octantis 6ᵐ–5ᵐ				ι Octantis 6ᵐ–5ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 41^m$	in ^{s} 0.01	−85° 10′	in ″ 0.01	$9^h 8^m$	in ^{s} 0.01	−85° 20′	in ″ 0.01	$12^h 46^m$	in ^{s} 0.01	−84° 40′	in ″ 0.01
Jan. 0	56.27	−5	60.00	−6	55.06	+6	21.30	−4	23.03	+5	47.40	+3
1	56.00	−6	60.03	−3	55.19	+4	21.63	−6	23.29	+5	47.48	0
2	55.73	−5	60.06	0	55.31	+2	21.96	−6	23.54	+5	47.56	−3
3	55.46	−3	60.09	+4	55.43	−1	22.30	−5	23.80	+2	47.65	−5
4	55.19	0	60.10	+6	55.55	−4	22.65	−3	24.06	0	47.75	−6
5	54.91	+2	60.11	+7	55.67	−5	22.99	+1	24.32	−3	47.85	−5
6	54.64	+5	60.11	+6	55.78	−6	23.34	+4	24.58	−6	47.96	−3
7	54.37	+7	60.11	+3	55.89	−4	23.69	+7	24.84	−7	48.08	+1
8	54.09	+7	60.09	−1	55.99	−2	24.04	+9	25.10	−6	48.20	+4
9	53.82	+5	60.08	−5	56.09	+1	24.40	+8	25.35	−4	48.33	+7
10	53.54	+2	60.05	−7	56.18	+4	24.75	+6	25.61	−2	48.46	+8
11	53.27	−1	60.02	−8	56.27	+6	25.11	+1	25.86	+2	48.60	+7
12	52.99	−4	59.98	−7	56.35	+6	25.47	−3	26.12	+5	48.75	+4
13	52.72	−7	59.94	−4	56.43	+5	25.84	−7	26.37	+7	48.90	0
14	52.44	−7	59.89	0	56.51	+3	26.20	−9	26.62	+7	49.06	−4
15	52.17	−6	59.83	+4	56.57	0	26.57	−10	26.87	+6	49.22	−8
16	51.89	−4	59.77	+8	56.64	−3	26.94	−8	27.12	+3	49.39	−10
17	51.62	−1	59.71	+10	56.70	−6	27.31	−6	27.36	+1	49.57	−10
18	51.34	+2	59.63	+10	56.75	−7	27.69	−2	27.61	−2	49.75	−9
19	51.07	+4	59.55	+9	56.80	−7	28.06	+2	27.86	−4	49.94	−6
20	50.79	+5	59.47	+6	56.84	−5	28.44	+5	28.10	−5	50.13	−2
21	50.52	+6	59.38	+2	56.88	−3	28.82	+6	28.34	−6	50.33	+1
22	50.24	+5	59.28	−1	56.92	−1	29.20	+7	28.58	−5	50.53	+4
23	49.97	+3	59.18	−5	56.95	+2	29.57	+6	28.82	−3	50.74	+7
24	49.70	+1	59.07	−7	56.97	+4	29.95	+5	29.05	−1	50.95	+8
25	49.43	−1	58.96	−9	56.99	+6	30.34	+3	29.28	+1	51.17	+8
26	49.16	−3	58.84	−8	57.01	+6	30.72	0	29.51	+3	51.39	+7
27	48.89	−5	58.71	−7	57.02	+6	31.10	−3	29.74	+5	51.62	+5
28	48.62	−5	58.58	−5	57.02	+5	31.49	−5	29.97	+5	51.86	+1
29	48.36	−5	58.44	−1	57.02	+3	31.87	−6	30.20	+5	52.10	−2
30	48.09	−4	58.30	+2	57.02	0	32.26	−6	30.42	+3	52.34	−4
31	47.83	−2	58.15	+5	57.01	−3	32.64	−4	30.64	+1	52.59	−6
Febr. 1	47.56	+1	57.99	+7	57.00	−5	33.03	−1	30.85	−2	52.84	−6
2	47.30	+4	57.83	+6	56.98	−6	33.41	+3	31.07	−5	53.10	−4
3	47.04	+6	57.67	+5	56.96	−5	33.80	+7	31.28	−6	53.36	−1
4	46.79	+7	57.50	+1	56.93	−3	34.18	+8	31.49	−7	53.62	+3
5	46.53	+6	57.32	−3	56.90	−1	34.57	+8	31.70	−5	53.89	+6
6	46.28	+3	57.14	−6	56.86	+2	34.95	+6	31.90	−3	54.16	+8
sec δ, tg δ	85° 10′ 50″	11.902	−11.860		85° 20′ 20″	12.306	−12.265		84° 40′ 40″	10.781	−10.734	
	60	11.909	−11.867		30	12.313	−12.273		50	10.786	−10.740	

1919	Octantis 20 G. 7^m				Octantis 26 G. 6^m–7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 46^m$ s	in s 0.01	−87° 49′ ″	in ″ 0.01	$16^h 30^m$ s	in s 0.01	−86° 12′ ″	in ″ 0.01	$18^h 7^m$ s	in s 0.01	−87° 39′ ″	in ″ 0.01
Jan. 0	56.74	+ 9	5.99	+ 6	15.21	+ 2	62.29	+ 8	2.41	− 2	44.77	+ 8
1	57.34	+11	5.88	+ 3	15.47	+ 5	62.05	+ 6	2.62	+ 3	44.44	+ 7
2	57.94	+11	5.78	0	15.74	+ 6	61.82	+ 2	2.84	+ 8	44.12	+ 4
3	58.55	+ 8	5.68	− 4	16.02	+ 7	61.59	− 2	3.08	+11	43.80	+ 1
4	59.16	+ 3	5.59	− 6	16.30	+ 5	61.36	− 5	3.33	+10	43.48	− 3
5	59.78	− 3	5.50	− 7	16.58	+ 1	61.13	− 8	3.59	+ 7	43.16	− 7
6	60.40	−10	5.41	− 6	16.87	− 3	60.91	− 8	3.85	0	42.84	− 9
7	61.02	−15	5.34	− 3	17.16	− 7	60.69	− 7	4.13	− 5	42.52	− 8
8	61.65	−17	5.26	0	17.46	− 9	60.48	− 3	4.42	−11	42.21	− 6
9	62.28	−14	5.20	+ 4	17.76	−10	60.27	+ 1	4.71	−15	41.90	− 2
10	62.91	− 9	5.14	+ 7	18.07	− 8	60.07	+ 5	5.02	−14	41.59	+ 2
11	63.55	0	5.09	+ 8	18.38	− 4	59.87	+ 8	5.34	−10	41.28	+ 6
12	64.19	+ 8	5.04	+ 7	18.70	+ 1	59.68	+ 9	5.66	− 4	40.98	+ 9
13	64.84	+15	5.00	+ 5	19.02	+ 6	59.49	+ 7	5.99	+ 4	40.68	+ 9
14	65.48	+18	4.96	0	19.34	+10	59.30	+ 4	6.34	+11	40.38	+ 7
15	66.13	+18	4.93	− 4	19.67	+12	59.12	0	6.69	+17	40.09	+ 4
16	66.78	+14	4.91	− 7	20.00	+11	58.94	− 4	7.04	+19	39.79	0
17	67.43	+ 8	4.89	−10	20.33	+ 9	58.77	− 7	7.41	+17	39.50	− 4
18	68.09	+ 1	4.88	−10	20.67	+ 5	58.60	− 9	7.79	+13	39.22	− 7
19	68.74	− 5	4.87	− 9	21.01	+ 1	58.44	− 9	8.17	+ 7	38.93	− 8
20	69.40	−10	4.87	− 6	21.35	− 3	58.28	− 8	8.56	0	38.65	− 8
21	70.06	−13	4.87	− 2	21.70	− 6	58.13	− 5	8.96	− 5	38.37	− 7
22	70.73	−13	4.88	+ 1	22.05	− 8	57.98	− 2	9.37	−10	38.10	− 4
23	71.39	−11	4.90	+ 5	22.40	− 8	57.84	+ 2	9.78	−13	37.82	− 1
24	72.05	− 8	4.92	+ 7	22.76	− 8	57.70	+ 5	10.21	−14	37.56	+ 2
25	72.71	− 3	4.95	+ 9	23.12	− 6	57.57	+ 7	10.64	−13	37.29	+ 5
26	73.38	+ 2	4.99	+ 9	23.48	− 3	57.44	+ 8	11.07	−10	37.03	+ 7
27	74.04	+ 7	5.03	+ 7	23.84	0	57.32	+ 8	11.52	− 5	36.77	+ 8
28	74.70	+10	5.07	+ 5	24.21	+ 3	57.20	+ 7	11.97	+ 1	36.52	+ 7
29	75.36	+11	5.12	+ 1	24.58	+ 6	57.09	+ 4	12.43	+ 6	36.27	+ 5
30	76.02	+10	5.18	− 2	24.95	+ 7	56.98	0	12.90	+10	36.02	+ 2
31	76.68	+ 6	5.25	− 5	25.32	+ 6	56.88	− 4	13.38	+11	35.78	− 2
Febr. 1	77.34	0	5.32	− 7	25.70	+ 3	56.78	− 7	13.86	+ 9	35.54	− 6
2	78.01	− 7	5.39	− 7	26.08	− 1	56.69	− 8	14.35	+ 4	35.30	− 8
3	78.67	−13	5.47	− 5	26.46	− 5	56.60	− 8	14.85	− 2	35.07	− 9
4	79.32	−16	5.56	− 2	26.84	− 8	56.52	− 5	15.35	− 8	34.84	− 7
5	79.98	−15	5.65	+ 2	27.23	− 9	56.44	− 1	15.85	−13	34.62	− 4
6	80.64	−10	5.74	+ 6	27.61	− 8	56.37	+ 3	16.37	−14	34.40	0
sec δ, tg δ	87° 49′ 0″	26.249	−26.230		86° 12′ 50″	15.144	−15.111		87° 39′ 30″	24.475	−24.454	
	10	26.282	−26.263		60	15.155	−15.122		40	24.504	−24.483	

1919	σ Octantis 6^m^				β Octantis 4^m^.1				τ Octantis 6^m^			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 29^m$ s	in s 0.01	$-89° 12'$ ″	in ″ 0.01	$22^h 37^m$ s	in s 0.01	$-81° 48'$ ″	in ″ 0.01	$23^h 15^m$ s	in s 0.01	$-87° 55'$ ″	in ″ 0.01
Jan. 0	39.21	−32	72.73	+6	47.87	−4	35.27	0	73.99	−16	51.08	−2
1	39.20	−19	72.38	+7	47.76	−4	35.06	+2	73.45	−15	50.89	+1
2	39.22	−2	72.02	+7	47.65	−2	34.85	+5	72.92	−10	50.69	+4
3	39.27	+15	71.67	+5	47.54	0	34.62	+6	72.39	−4	50.49	+6
4	39.36	+28	71.31	+2	47.43	+2	34.39	+6	71.86	+4	50.29	+6
5	39.47	+33	70.96	−1	47.33	+4	34.15	+4	71.34	+11	50.08	+5
6	39.61	+29	70.60	−5	47.22	+4	33.91	0	70.83	+15	49.86	+2
7	39.78	+17	70.24	−8	47.12	+4	33.66	−3	70.32	+16	49.64	−2
8	39.99	−1	69.89	−9	47.02	+2	33.41	−7	69.82	+13	49.42	−6
9	40.22	−20	69.53	−8	46.92	0	33.15	−9	69.33	+6	49.19	−8
10	40.49	−36	69.18	−5	46.82	−2	32.89	−8	68.84	−2	48.95	−9
11	40.78	−42	68.82	−1	46.73	−4	32.62	−6	68.36	−10	48.71	−7
12	41.11	−38	68.47	+4	46.64	−5	32.35	−2	67.88	−15	48.46	−4
13	41.46 / 41.85	−24 / −4	68.11 / 67.76	+7 / +9	46.55	−4	32.08	+2	67.42	−17	48.21	+1
14	42.26	+19	67.40	+9	46.46	−3	31.80	+6	66.96	−15	47.95	+5
15	42.71	+38	67.04	+7	46.38	−1	31.52	+9	66.50	−8	47.69	+9
16	43.19	+49	66.69	+4	46.30	+2	31.23	+10	66.06	−1	47.42	+10
17	43.69	+52	66.33	0	46.22	+4	30.94	+9	65.62	+7	47.15	+10
18	44.22	+46	65.98	−4	46.14	+5	30.64	+7	65.19	+13	46.88	+8
19	44.78	+32	65.63	−6	46.06	+5	30.34	+4	64.76	+16	46.60	+5
20	45.37	+14	65.28	−8	45.98	+4	30.04	0	64.35	+16	46.32	+1
21	45.98	−5	64.93	−7	45.91	+3	29.73	−3	63.94	+14	46.03	−2
22	46.63	−21	64.58	−6	45.84	+1	29.42	−6	63.54	+9	45.74	−5
23	47.31	−34	64.24	−4	45.77	0	29.10	−7	63.14	+3	45.44	−7
24	48.01	−41	63.89	−1	45.71	−2	28.79	−7	62.75	−4	45.14	−8
25	48.73	−43	63.55	+2	45.65	−4	28.47	−6	62.38	−9	44.83	−7
26	49.49	−37	63.21	+5	45.59	−5	28.14	−4	62.01	−14	44.52	−6
27	50.27	−26	62.87	+7	45.53	−5	27.82	−2	61.64	−16	44.21	−3
28	51.08	−12	62.54	+7	45.47	−4	27.49	+1	61.29	−16	43.90	0
29	51.91	+8	62.20	+6	45.41	−3	27.16	+4	60.95	−12	43.58	+3
30	52.77	+23	61.87	+4	45.36	−1	26.83	+6	60.61	−6	43.26	+5
31	53.66	+32	61.54	0	45.31	+1	26.49	+6	60.28	+1	42.93	+6
Febr. 1	54.57	+33	61.21	−4	45.26	+3	26.15	+5	59.96	+8	42.60	+5
2	55.51	+24	60.89	−7	45.21	+4	25.80	+2	59.65	+14	42.26	+3
3	56.47	+9	60.56	−9	45.17	+4	25.46	−2	59.35	+16	41.93	0
4	57.46	−10	60.24	−8	45.13	+3	25.11	−5	59.05	+15	41.59	−4
5	58.47	−27	59.92	−6	45.09	+1	24.76	−7	58.77	+9	41.24	−7
6	59.51	−38	59.60	−2	45.06	−1	24.41	−8	58.50	+2	40.90	−8
sec δ, tg δ	89° 12′ 60″	73.146	−73.139		81° 48′ 30″	7.018	−6.947		87° 55′ 40″	27.655	−27.637	
	70	73.406	−73.399		40	7.021	−6.949		50	27.693	−27.675	

1919	Octantis 4 G. 6^m				ζ Octantis $6^m - 5^m$				ι Octantis $6^m - 5^m$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 41^m$	in ^{s} 0.01	$-85° 10'$	in $''$ 0.01	$9^h 8^m$	in ^{s} 0.01	$-85° 20'$	in $''$ 0.01	$12^h 46^m$	in ^{s} 0.01	$-84° 40'$	in $''$ 0.01
Febr. 6	46.28	+3	57.14	−6	56.86	+2	34.95	+6	31.90	−3	54.16	+8
7	46.03	0	56.96	−8	56.81	+5	35.34	+3	32.11	+1	54.44	+7
8	45.78	−3	56.77	−7	56.76	+6	35.72	−2	32.31	+4	54.72	+5
9	45.53	−6	56.57	−5	56.71	+6	36.11	−6	32.51	+6	55.01	+2
10	45.28	−7	56.37	−2	56.65	+4	36.49	−9	32.70	+7	55.30	−3
11	45.04	−7	56.16	+3	56.59	+1	36.87	−10	32.90	+7	55.59	−7
12	44.80	−5	55.95	+7	56.53	−2	37.25	−9	33.08	+5	55.89	−9
13	44.56	−2	55.74	+9	56.46	−5	37.63	−7	33.27	+2	56.19	−10
14	44.32	+1	55.51	+10	56.38	−6	38.01	−3	33.45	−1	56.50	−9
15	44.08	+4	55.29	+9	56.31	−7	38.39	+1	33.63	−4	56.80	−7
16	43.84	+5	55.06	+7	56.22	−6	38.76	+4	33.81	−5	57.12	−4
17	43.61	+6	54.82	+4	56.14	−4	39.13	+6	33.99	−6	57.43	0
18	43.38	+5	54.58	0	56.05	−2	39.51	+7	34.16	−5	57.75	+3
19	43.15	+4	54.33	−4	55.95	+1	39.88	+7	34.33	−4	58.07	+6
20	42.92	+2	54.08	−6	55.85	+3	40.25	+6	34.50	−2	58.40	+8
21	42.70	0	53.83	−8	55.74	+5	40.62	+4	34.66	0	58.72	+8
22	42.48	−2	53.57	−9	55.64	+6	40.99	+1	34.82	+2	59.06	+8
23	42.27	−4	53.31	−8	55.52	+6	41.35	−2	34.98	+4	59.39	+6
24	42.05	−5	53.04	−6	55.40	+6	41.71	−4	35.13	+5	59.73	+3
25	41.84	−5	52.77	−3	55.28	+4	42.07	−5	35.28	+5	60.07	0
26	41.63	−4	52.49	0	55.16	+1	42.43	−6	35.42	+4	60.41	−3
27	41.42	−2	52.21	+4	55.02	−1	42.79	−4	35.57	+2	60.75	−5
28	41.22	0	51.93	+6	54.89	−4	43.15	−2	35.70	−1	61.10	−6
März 1	41.02	+3	51.64	+7	54.75	−5	43.50	+2	35.84	−4	61.45	−5
2	40.82	+5	51.35	+5	54.61	−6	43.85	+5	35.97	−6	61.80	−2
3	40.63	+7	51.06	+3	54.46	−4	44.20	+7	36.10	−7	62.15	+1
4	40.43	+6	50.76	−1	54.31	−2	44.54	+8	36.23	−6	62.51	+4
5	40.25	+4	50.46	−5	54.16	+1	44.88	+7	36.35	−4	62.87	+7
6	40.06	+1	50.16	−7	54.00	+4	45.22	+4	36.47	−1	63.23	+7
7	39.88	−2	49.85	−7	53.84	+5	45.55	0	36.59	+3	63.59	+6
8	39.70	−5	49.54	−6	53.67	+6	45.89	−4	36.70	+6	63.95	+3
9	39.53	−7	49.23	−3	53.51	+4	46.22	−8	36.81	+7	64.31	−1
10	39.36	−7	48.91	+1	53.34	+2	46.55	−10	36.92	+7	64.68	−5
11	39.19	−6	48.59	+6	53.16	−1	46.87	−10	37.02	+6	65.05	−9
12	39.02	−3	48.27	+9	52.98	−4	47.19	−8	37.12	+3	65.42	−10
13	38.86	0	47.94	+10	52.80	−6	47.51	−5	37.22	0	65.79	−10
14	38.70	+3	47.62	+10	52.62	−7	47.82	−1	37.31	−3	66.16	−8
15	38.55	+5	47.29	+8	52.43	−6	48.14	+2	37.40	−5	66.53	−5
sec δ, tg δ	85°10′50″	11.902	−11.860		85°20′40″	12.321	−12.280		84°40′60″	10.792	−10.746	
	60	11.909	−11.867		50	12.328	−12.287		70	10.798	−10.751	

1919	Octantis 20 G. 7^m				Octantis 26 G. 6^m–7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	14h 47m	in 0.01 s	−87° 49′	in 0.01 ″	16h 30m	in 0.01 s	−86° 12′	in 0.01 ″	18h 7m	in 0.01 s	−87° 39′	in 0.01 ″
Febr. 6	20.64	−10	5.74	+6	27.61	−8	56.37	+3	16.37	−14	34.40	0
7	21.29	−3	5.84	+8	28.00	−5	56.31	+7	16.88	−11	34.19	+5
8	21.95	+5	5.95	+8	28.39	−1	56.25	+8	17.41	−6	33.98	+8
9	22.60	+13	6.06	+6	28.78	+4	56.19	+8	17.94	+1	33.77	+9
10	23.25	+17	6.18	+2	29.17	+9	56.14	+6	18.48	+9	33.57	+8
11	23.90	+19	6.30	−2	29.56	+11	56.10	+2	19.02	+15	33.37	+6
12	24.54	+16	6.43	−6	29.96	+12	56.06	−2	19.56	+18	33.18	+2
13	25.18	+11	6.56	−9	30.35	+10	56.02	−6	20.11	+18	32.99	−2
14	25.82	+4	6.70	−10	30.75	+7	55.99	−8	20.67	+15	32.80	−6
15	26.46	−3	6.84	−9	31.14	+2	55.97	−9	21.23	+9	32.62	−8
16	27.09	−9	6.99	−7	31.54	−2	55.95	−8	21.79	+3	32.44	−8
17	27.73	−12	7.15	−4	31.94	−5	55.93	−6	22.36	−4	32.27	−7
18	28.35	−13	7.31	0	32.34	−7	55.92	−3	22.94	−9	32.10	−5
19	28.98	−12	7.47	+3	32.74	−9	55.92	+1	23.52	−13	31.94	−2
20	29.60	−9	7.64	+6	33.14	−8	55.92	+4	24.10	−14	31.78	+1
21	30.22	−5	7.81	+8	33.54	−7	55.93	+6	24.69	−14	31.63	+4
22	30.84	0	7.99	+9	33.93	−4	55.94	+8	25.28	−11	31.48	+6
23	31.45	+4	8.17	+8	34.33	−1	55.96	+9	25.87	−7	31.34	+8
24	32.05	+8	8.36	+6	34.73	+2	55.98	+8	26.47	−2	31.20	+8
25	32.66	+10	8.55	+3	35.13	+4	56.01	+5	27.07	+3	31.06	+6
26	33.25	+10	8.75	0	35.53	+6	56.04	+2	27.67	+7	30.93	+3
27	33.85	+7	8.95	−4	35.93	+6	56.08	−2	28.28	+10	30.80	0
28	34.44	+2	9.15	−6	36.33	+4	56.12	−6	28.89	+9	30.68	−4
März 1	35.02	−5	9.36	−7	36.73	+1	56.17	−8	29.50	+6	30.56	−7
2	35.60	−11	9.57	−6	37.13	−3	56.22	−8	30.12	0	30.45	−9
3	36.17	−15	9.79	−3	37.52	−7	56.28	−6	30.73	−6	30.34	−8
4	36.74	−15	10.01	0	37.92	−9	56.34	−3	31.36	−11	30.24	−6
5	37.31	−12	10.24	+4	38.32	−9	56.40	+1	31.98	−13	30.14	−2
6	37.87	−6	10.47	+7	38.71	−6	56.47	+5	32.60	−12	30.05	+3
7	38.42	+3	10.70	+8	39.10	−2	56.55	+8	33.23	−7	29.96	+7
8	38.97	+11	10.94	+6	39.49	+3	56.63	+8	33.86	−1	29.88	+9
9	39.52	+17	11.18	+3	39.88	+8	56.71	+7	34.48	+7	29.80	+9
10	40.06	+19	11.43	−1	40.27	+11	56.80	+4	35.12	+14	29.73	+7
11	40.59	+18	11.68	−5	40.66	+12	56.90	0	35.75	+18	29.66	+4
12	41.12	+14	11.93	−8	41.05	+11	57.00	−5	36.39	+19	29.60	−1
13	41.64	+7	12.19	−10	41.44	+8	57.11	−8	37.02	+17	29.54	−4
14	42.15	0	12.45	−10	41.82	+4	57.22	−9	37.66	+12	29.48	−7
15	42.66	−6	12.72	−8	42.20	0	57.33	−9	38.29	+5	29.43	−8
sec δ, tg δ	87° 49′ 0″	26.249	−26.230		86° 12′ 50″	15.144	−15.111		87° 39′ 30″	24.475	−24.454	
	10	26.282	−26.263		60	15.155	−15.122		40	24.504	−24.483	

1919	σ Octantis 6^m				β Octantis 4^m.1				τ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	19^h 29^m	in ^{s} 0.01	−89° 12′	in ″ 0.01	22^h 37^m	in ^{s} 0.01	−81° 48′	in ″ 0.01	23^h 15^m	in ^{s} 0.01	−87° 55′	in ″ 0.01
Febr. 6	59.51	−38	59.60	− 2	45.06	− 1	24.41	− 8	58.50	+ 2	40.90	− 8
7	60.57	−38	59.29	+ 2	45.02	− 3	24.05	− 7	58.23	− 6	40.55	− 7
8	61.65	−29	58.97	+ 6	44.99	− 4	23.70	− 4	57.98	−13	40.20	− 5
9	62.76	−11	58.66	+ 9	44.96	− 4	23.34	+ 1	57.73	−17	39.85	− 1
10	63.89	+10	58.35	+10	44.94	− 4	22.98	+ 5	57.49	−16	39.49	+ 4
11	65.04	+30	58.05	+ 8	44.91	− 2	22.62	+ 8	57.26	−11	39.13	+ 8
12	66.21	+45	57.75	+ 5	44.89	+ 1	22.25	+10	57.04	− 4	38.77	+11
13	67.40	+51	57.45	+ 1	44.87	+ 3	21.88	+10	56.83	+ 4	38.41	+10
14	68.62	+48	57.16	− 2	44.86	+ 4	21.52	+ 8	56.63	+11	38.04	+ 9
15	69.86	+37	56.87	− 6	44.84	+ 5	21.15	+ 5	56.44	+15	37.67	+ 6
16	71.12	+21	56.58	− 7	44.83	+ 5	20.78	+ 1	56.25	+17	37.30	+ 2
17	72.40	+ 2	56.30	− 8	44.82	+ 4	20.41	− 2	56.08	+15	36.93	− 1
18	73.70	−16	56.02	− 6	44.81	+ 2	20.04	− 5	55.91	+11	36.56	− 4
19	75.02	−30	55.74	− 4	44.81	0	19.66	− 7	55.76	+ 5	36.19	− 6
20	76.36	−40	55.46	− 2	44.81	− 2	19.29	− 7	55.61	− 1	35.81	− 8
21	77.71	−43	55.19	+ 1	44.81	− 3	18.91	− 7	55.47	− 8	35.43	− 8
22	79.09	−41	54.92	+ 4	44.82	− 4	18.54	− 5	55.35	−12	35.05	− 6
23	80.48	−32	54.66	+ 6	44.82	− 5	18.16	− 3	55.23	−15	34.67	− 4
24	81.89	−18	54.40	+ 7	44.83	− 4	17.79	0	55.12	−16	34.29	− 2
25	83.32	− 2	54.14	+ 6	44.84	− 3	17.41	+ 2	55.02	−14	33.91	+ 1
26	84.77	+15	53.89	+ 4	44.85	− 2	17.03	+ 4	54.93	− 9	33.53	+ 3
27	86.23	+27	53.64	+ 1	44.87	0	16.65	+ 5	54.85	− 2	33.14	+ 4
28	87.71	+31	53.39	− 2	44.88	+ 2	16.28	+ 5	54.78	+ 5	32.75	+ 5
März 1	89.20	+27	53.15	− 6	44.90	+ 4	15.90	+ 3	54.71	+12	32.37	+ 4
2	90.71	+15	52.91	− 8	{44.92 {44.94	+ 4 + 4	15.52 15.14	0 − 4	54.66	+16	31.98	+ 1
3	92.24	− 2	52.68	− 9	44.96	+ 2	14.76	− 7	54.62	+16	31.59	− 2
4	93.78	−20	52.45	− 7	44.99	0	14.39	− 8	54.59	+12	31.20	− 6
5	95.33	−33	52.22	− 4	45.02	− 2	14.01	− 7	54.56	+ 5	30.82	− 7
6	96.90	−37	52.00	+ 1	45.05	− 4	13.63	− 5	54.55	− 3	30.43	− 7
7	98.48	−31	51.78	+ 5	45.09	− 4	13.25	− 1	54.54	−10	30.04	− 5
8	100.08	−16	51.57	+ 8	45.12	− 4	12.88	+ 4	54.54	−15	29.65	− 2
9	101.69	+ 4	51.36	+10	45.16	− 2	12.50	+ 8	54.56	−16	29.26	+ 2
10	103.31	+25	51.15	+ 9	45.20	0	12.13	+10	54.58	−13	28.87	+ 7
11	104.94	+42	50.95	+ 7	45.25	+ 2	11.75	+11	{54.61 {54.65	− 7 + 1	28.48 28.09	+10 +11
12	106.59	+52	50.75	+ 3	45.30	+ 4	11.38	+ 9	54.70	+ 8	27.70	+10
13	108.24	+51	50.56	− 1	45.35	+ 5	11.00	+ 6	54.76	+14	27.31	+ 8
14	109.91	+43	50.37	− 4	45.40	+ 5	10.63	+ 3	54.83	+17	26.92	+ 4
15	111.58	+28	50.19	− 7	45.46	+ 4	10.26	− 1	54.90	+16	26.53	0
sec δ, tg δ	89° 12′ 50″	72.887	−72.881		81° 48′ 10″	7.014	−6.942		87° 55′ 30″	27.618	−27.600	
	60	73.146	−73.139		20	7.016	−6.944		40	27.655	−27.637	

1919	Octantis 4 G. 6^m				ζ Octantis 6^m – 5^m				ι Octantis 6^m – 5^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	1^h 41^m s	in s 0.01	−85° 10′ ″	in ″ 0.01	9^h 8^m s	in s 0.01	−85° 20′ ″	in ″ 0.01	12^h 46^m s	in s 0.01	−84° 41′ ″	in ″ 0.01
März 15	38.55	+ 5	47.29	+ 8	52.43	− 6	48.14	+ 2	37.40	− 5	6.53	− 5
16	38.40	+ 6	46.95	+ 5	52.24	− 5	48.44	+ 5	37.48	− 6	6.90	− 1
17	38.25	+ 5	46.62	+ 1	52.05	− 3	48.75	+ 7	37.57	− 6	7.27	+ 2
18	38.10	+ 4	46.28	− 2	51.85	0	49.05	+ 7	37.64	− 5	7.65	+ 5
19	37.96	+ 3	45.94	− 5	51.65	+ 2	49.35	+ 6	37.72	− 3	8.03	+ 7
20	37.82	+ 1	45.60	− 7	51.45	+ 4	49.64	+ 4	37.79	− 1	8.40	+ 8
21	37.69	− 1	45.25	− 9	51.24	+ 6	49.93	+ 2	37.86	+ 1	8.78	+ 8
22	37.56	− 3	44.90	− 8	51.03	+ 6	50.21	0	37.92	+ 3	9.16	+ 7
23	37.43	− 5	44.55	− 7	50.82	+ 6	50.50	− 3	37.98	+ 5	9.54	+ 4
24	37.31	− 5	44.20	− 5	50.60	+ 5	50.77	− 5	38.04	+ 5	9.91	+ 1
25	37.19	− 5	43.85	− 1	50.38	+ 3	51.05	− 5	38.09	+ 4	10.29	− 2
26	37.07	− 3	43.49	+ 2	50.16	0	51.32	− 5	38.14	+ 2	10.67	− 4
27	36.96	− 1	43.14	+ 4	49.94	− 3	51.59	− 3	38.19	0	11.05	− 5
28	36.85	+ 2	42.78	+ 6	49.71	− 5	51.85	+ 1	38.23	− 3	11.43	− 5
29	36.74	+ 5	42.42	+ 5	49.49	− 5	52.11	+ 4	38.27	− 5	11.81	− 3
30	36.64	+ 6	42.05	+ 3	49.25	− 5	52.37	+ 7	38.31	− 7	12.19	0
31	36.54	+ 7	41.69	0	49.02	− 3	52.62	+ 9	38.34	− 7	12.57	+ 4
April 1	36.44	+ 5	41.33	− 3	48.79	0	52.87	+ 8	38.37	− 5	12.95	+ 6
2	36.35	+ 2	40.96	− 6	48.55	+ 3	53.11	+ 6	38.40	− 2	13.32	+ 7
3	36.27	− 1	40.59	− 8	48.31	+ 5	53.35	+ 2	38.42	+ 2	13.70	+ 7
4	36.18	− 4	40.23	− 7	48.07	+ 6	53.58	− 3	38.44	+ 5	14.08	+ 4
5	36.11	− 6	39.86	− 4	47.83	+ 5	53.81	− 7	38.45	+ 7	14.45	0
6	36.03	− 7	39.49	0	47.58	+ 3	54.04	−10	38.47	+ 8	14.83	− 4
7	35.96	− 7	39.12	+ 4	47.34	0	54.26	−11	38.47	+ 7	15.21	− 8
8	35.90	− 4	38.75	+ 8	47.09	− 3	54.48	− 9	38.48	+ 4	15.58	−10
9	35.84	− 2	38.37	+10	46.84	− 5	54.69	− 7	38.48	+ 1	15.96	−11
10	35.78	+ 1	38.00	+11	46.59	− 7	54.90	− 3	38.48	− 2	16.33	−10
11	35.72	+ 4	37.63	+ 9	46.33	− 7	55.10	+ 1	38.47	− 4	16.70	− 7
12	35.67	+ 5	37.25	+ 7	46.08	− 6	55.30	+ 4	38.47	− 5	17.08	− 3
13	35.63	+ 6	36.88	+ 3	45.82	− 4	55.49	+ 6	38.45	− 6	17.44	0
14	35.58	+ 5	36.50	− 1	45.56	− 1	55.68	+ 7	38.44	− 5	17.81	+ 4
15	35.55	+ 3	36.13	− 4	45.30	+ 1	55.86	+ 6	38.42	− 3	18.18	+ 6
16	35.51	+ 1	35.75	− 6	45.04	+ 3	56.04	+ 4	38.40	− 1	18.54	+ 8
17	{35.48 {35.46	− 1 − 3	35.38 35.00	− 8 − 8	44.77	+ 5	56.21	+ 2	38.37	+ 1	18.90	+ 8
18	35.44	− 4	34.63	− 7	44.51	+ 6	56.38	− 1	38.34	+ 3	19.27	+ 7
19	35.42	− 5	34.26	− 5	44.25	+ 6	56.54	− 3	38.31	+ 4	19.62	+ 5
20	35.41	− 5	33.88	− 3	43.98	+ 5	56.70	− 4	38.27	+ 5	19.98	+ 3
21	35.40	− 4	33.51	+ 1	43.71	+ 3	56.85	− 5	38.23	+ 5	20.34	0
sec δ, tg δ	85° 10′ 40″ 50	11.896 11.902	−11.854 −11.860		85° 20′ 50″ 60	12.328 12.335	−12.287 −12.295		84° 41′ 10″ 20	10.798 10.803	−10.751 −10.757	

1919	Octantis 20 G. 7^m				Octantis 26 G. 6^m – 7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 47^m$ s	in 0.01 s	−87° 49′ ″	in 0.01 ″	$16^h 30^m$ s	in 0.01 s	−86° 12′ ″	in 0.01 ″	$18^h 7^m$ s	in 0.01 s	−87° 39′ ″	in 0.01 ″
März 15	42.66	− 6	12.72	− 8	42.20	0	57.33	− 9	38.29	+ 5	29.43	− 8
16	43.16	−11	12.99	− 5	42.58	− 4	57.45	− 7	38.93	− 1	29.39	− 8
17	43.65	−13	13.26	− 1	42.96	− 6	57.57	− 4	39.57	− 7	29.35	− 6
18	44.14	−13	13.53	+ 2	43.34	− 8	57.70	− 1	40.21	−11	29.31	− 3
19	44.63	−11	13.81	+ 5	43.72	− 8	57.83	+ 3	40.84	−14	29.28	0
20	45.11	− 7	14.09	+ 7	44.09	− 7	57.97	+ 6	41.48	−14	29.26	+ 3
21	45.58	− 2	14.38	+ 9	44.46	− 5	58.11	+ 8	42.12	−13	29.24	+ 5
22	46.04	+ 3	14.67	+ 9	44.83	− 3	58.25	+ 9	42.76	− 9	29.22	+ 7
23	46.50	+ 7	14.96	+ 7	45.20	0	58.40	+ 8	43.40	− 4	29.21	+ 8
24	46.95	+ 9	15.25	+ 5	45.57	+ 3	58.55	+ 6	44.04	0	29.21	+ 7
25	47.39	+10	15.54	+ 1	45.93	+ 5	58.71	+ 3	44.67	+ 5	29.21	+ 5
26	47.82	+ 8	15.84	− 2	46.29	+ 5	58.87	− 1	45.31	+ 8	29.21	+ 1
27	48.25	+ 3	16.14	− 5	46.65	+ 4	59.04	− 4	45.94	+ 8	29.22	− 3
28	48.67	− 3	16.44	− 7	47.00	+ 1	59.21	− 7	46.58	+ 6	29.24	− 6
29	49.09	−10	16.75	− 6	47.35	− 2	59.38	− 8	47.21	+ 1	29.26	− 8
30	49.50	−14	17.06	− 4	47.70	− 6	59.56	− 7	47.84	− 4	29.28	− 9
31	49.90	−16	17.37	− 1	48.05	− 9	59.74	− 4	48.47	−10	29.31	− 7
April 1	50.29	−14	17.68	+ 3	48.40	− 9	59.93	0	49.10	−13	29.34	− 3
2	50.68	− 9	18.00	+ 6	48.74	− 8	60.12	+ 4	49.73	−13	29.38	+ 1
3	51.05	− 1	18.32	+ 8	49.08	− 4	60.31	+ 7	50.35	−10	29.42	+ 5
4	51.42	+ 7	18.64	+ 7	49.41	+ 1	60.51	+ 8	50.98	− 3	29.47	+ 8
5	51.78	+15	18.96	+ 5	49.74	+ 6	60.71	+ 7	51.60	+ 5	29.52	+ 9
6	52.14	+19	19.28	+ 1	50.07	+10	60.91	+ 5	52.22	+12	29.58	+ 8
7	52.48	+20	19.60	− 4	50.40	+13	61.12	+ 1	52.84	+18	29.64	+ 5
8	52.82	+16	19.93	− 8	50.72	+12	61.33	− 3	53.45	+20	29.70	+ 1
9	53.16	+10	20.26	−10	51.04	+10	61.54	− 7	54.07	+19	29.77	− 3
10	53.48	+ 3	20.59	−10	51.35	+ 7	61.76	− 9	54.68	+15	29.84	− 6
11	53.79	− 4	20.92	− 9	51.66	+ 2	61.98	− 9	55.29	+ 9	29.92	− 8
12	54.10	− 9	21.26	− 7	51.97	− 2	62.20	− 8	55.89	+ 2	30.00	− 8
13	54.40	−12	21.59	− 3	52.27	− 5	62.43	− 6	56.50	− 4	30.09	− 7
14	54.69	−12	21.93	+ 1	52.58	− 7	62.66	− 2	57.09	− 9	30.18	− 4
15	54.97	−11	22.27	+ 4	52.87	− 8	62.89	+ 1	57.69	−12	30.28	− 1
16	55.24	− 8	22.60	+ 7	53.17	− 7	63.13	+ 4	58.28	−14	30.38	+ 2
17	55.51	− 3	22.94	+ 8	53.46	− 6	63.37	+ 7	58.87	−13	30.49	+ 5
18	55.76	+ 1	23.29	+ 9	53.75	− 3	63.61	+ 8	59.45	−10	30.60	+ 7
19	56.01	+ 6	23.63	+ 8	54.03	− 1	63.86	+ 8	60.03	− 6	30.71	+ 8
20	56.25	+ 9	23.97	+ 5	54.31	+ 2	64.11	+ 7	60.61	− 1	30.83	+ 7
21	56.48	+10	24.32	+ 3	54.59	+ 4	64.36	+ 5	61.18	+ 3	30.95	+ 6
sec δ, tg δ	87° 49′ 10″	26.282	−26.263		86° 12′ 60″	15.155	−15.122		87° 39′ 20″	24.446	−24.425	
	20	26.316	−26.297		70	15.166	−15.133		30	24.475	−24.454	

1919	σ Octantis 6^m AR.	☾ Gl.	Dekl.	☾ Gl.	β Octantis 4^m.1 AR.	☾ Gl.	Dekl.	☾ Gl.	τ Octantis 6^m AR.	☾ Gl.	Dekl.	☾ Gl.
	19^h 30^m	in s 0.01	−89° 12'	in " 0.01	22^h 37^m	in s 0.01	−81° 47'	in " 0.01	23^h 15^m	in s 0.01	−87° 55'	in " 0.01
März 15	51.58	+28	50.19	− 7	45.46	+ 4	70.26	− 1	54.90	+16	26.53	0
16	53.27	+ 9	50.01	− 8	45.51	+ 3	69.89	− 4	54.99	+13	26.15	− 3
17	54.97	− 9	49.84	− 7	45.57	+ 1	69.52	− 6	55.09	+ 8	25.76	− 6
18	56.68	−25	49.67	− 5	45.63	− 1	69.16	− 7	55.19	+ 1	25.38	− 7
19	58.39	−36	49.50	− 3	45.69	− 3	68.79	− 7	55.31	− 5	24.99	− 8
20	60.12	−42	49.34	0	45.75	− 4	68.42	− 6	55.43	−10	24.61	− 7
21	61.85	−42	49.18	+ 3	45.82	− 5	68.06	− 4	55.56	−14	24.23	− 5
22	63.59	−36	49.03	+ 5	45.89	− 5	67.70	− 1	55.70	−16	23.85	− 3
23	65.34	−25	48.88	+ 6	45.96	− 4	67.34	+ 1	55.85	−15	23.47	0
24	67.10	−10	48.74	+ 6	46.03	− 3	66.98	+ 3	56.01	−11	23.09	+ 2
25	68.86	+ 6	48.60	+ 5	46.11	− 1	66.63	+ 5	56.17	− 5	22.72	+ 4
26	70.63	+20	48.47	+ 2	46.19	+ 1	66.27	+ 5	56.35	+ 2	22.34	+ 5
27	72.40	+27	48.34	− 1	46.27	+ 3	65.92	+ 3	56.53	+ 9	21.97	+ 4
28	74.18	+27	48.22	− 5	46.35	+ 4	65.57	0	56.72	+14	21.59	+ 1
29	75.96	+18	48.10	− 8	46.43	+ 4	65.22	− 3	56.92	+16	21.22	− 2
30	77.75	+ 3	47.98	− 9	46.51	+ 3	64.87	− 6	57.12	+14	20.85	− 5
31	79.55	−15	47.87	− 8	46.60	+ 1	64.53	− 8	57.34	+ 8	20.48	− 7
April 1	81.35	−30	47.77	− 5	46.69	− 1	64.19	− 8	57.56	0	20.12	− 8
2	83.15	−37	47.67	− 1	46.78	− 3	63.85	− 6	57.80	− 8	19.75	− 7
3	84.96	−35	47.57	+ 3	46.87	− 4	63.51	− 2	58.04	−14	19.39	− 3
4	86.77	−22	47.48	+ 6	46.97	− 4	63.18	+ 2	58.28	−16	19.03	+ 1
5	88.59	− 3	47.39	+10	47.06	− 3	62.85	+ 6	58.54	−15	18.68	+ 5
6	90.41	+19	47.31	+10	47.16	− 1	62.52	+10	58.81	−10	18.32	+ 9
7	92.22	+39	47.23	+ 8	47.26	+ 1	62.20	+11	59.08	− 2	17.97	+11
8	94.04	+52	47.16	+ 5	47.36	+ 4	61.88	+11	59.36	+ 6	17.62	+11
9	95.85	+55	47.09	+ 1	47.46	+ 5	61.56	+ 8	59.65	+13	17.27	+ 9
10	97.67	+49	47.03	− 3	47.57	+ 5	61.24	+ 5	59.95	+16	16.92	+ 6
11	99.49	+36	46.98	− 6	47.68	+ 5	60.93	+ 1	60.25	+17	16.58	+ 2
12	101.30	+19	46.93	− 7	47.78	+ 4	60.61	− 3	60.57	+15	16.24	− 1
13	103.12	0	46.88	− 7	47.90	+ 2	60.31	− 5	60.89	+10	15.90	− 4
14	104.93	−18	46.84	− 6	48.01	0	60.00	− 7	61.21	+ 4	15.57	− 6
15	106.75	−31	46.80	− 4	48.12	− 2	59.70	− 7	61.55	− 3	15.24	− 6
16	108.56	−39	46.77	− 1	48.24	− 3	59.40	− 6	61.89	− 9	14.91	− 7
17	110.37	−41	46.74	+ 2	48.36	− 4	59.11	− 4	62.24	−13	14.59	− 6
18	112.18	−38	46.72	+ 4	48.47	− 5	58.82	− 2	62.59	−16	14.27	− 3
19	113.99	−29	46.70	+ 6	48.60	− 4	58.53	0	62.96	−16	13.95	− 1
20	115.79	−15	46.69	+ 6	48.72	− 3	58.25	+ 2	63.33	−13	13.63	+ 1
21	117.59	0	46.69	+ 6	48.84	− 2	57.97	+ 4	63.71	− 8	13.32	+ 3
sec δ, tg δ	89° 12' 40"	72.631	−72.624		81° 47' 60"	7.011	−6.940		87° 55' 10"	27.545	−27.527	
	50	72.887	−72.881		70	7.014	−6.942		20	27.582	−27.563	

1919	Octantis 4 G. 6^m				ζ Octantis $6^m - 5^m$				ι Octantis $6^m - 5^m$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 41^m$	in ^{s} 0.01	$-85° 10'$	in $''$ 0.01	$9^h 8^m$	in ^{s} 0.01	$-85° 20'$	in $''$ 0.01	$12^h 46^m$	in ^{s} 0.01	$-84° 41'$	in $''$ 0.01
April 21	35.40	−4	33.51	+1	43.71	+3	56.85	−5	38.23	+5	20.34	0
22	35.39	−2	33.13	+4	43.44	+1	57.00	−5	38.19	+3	20.69	−3
23	35.39	+1	32.76	+5	43.17	−2	57.15	−3	38.14	+1	21.04	−4
24	35.39	+4	32.39	+5	42.90	−4	57.29	0	38.09	−2	21.39	−4
25	35.40	+6	32.01	+4	42.62	−5	57.42	+4	38.04	−4	21.74	−3
26	35.41	+7	31.64	+1	42.35	−5	57.55	+7	37.98	−6	22.08	0
27	35.43	+6	31.27	−3	42.08	−3	57.67	+9	37.92	−7	22.43	+3
28	35.45	+4	30.90	−6	41.81	−1	57.79	+9	37.86	−6	22.77	+6
29	35.47	+1	30.54	−8	41.53	+2	57.90	+7	37.79	−4	23.11	+8
30	35.50	−3	30.18	−8	41.26	+4	58.01	+4	37.72	0	23.45	+8
Mai 1	35.53	−5	29.81	−6	40.98	+6	58.11	−1	37.65	+3	23.78	+6
2	35.57	−7	29.45	−2	40.71	+6	58.21	−5	37.57	+6	24.11	+2
3	35.60	−7	29.09	+3	40.43	+4	58.30	−9	37.49	+7	24.44	−2
4	35.65	−5	28.73	+7	40.15	+1	58.39	−10	37.41	+7	24.77	−7
5	35.69	−3	28.37	+10	39.88	−2	58.47	−10	37.32	+5	25.09	−10
6	35.74	0	28.01	+11	39.60	−5	58.55	−8	37.24	+3	25.41	−11
7	35.79	+3	27.66	+11	39.32	−7	58.62	−5	37.15	0	25.73	−11
8	35.85	+5	27.30	+8	39.05	−7	58.68	−1	37.05	−3	26.04	−9
9	35.91	+6	26.94	+5	38.77	−7	58.74	+3	36.96	−5	26.35	−5
10	35.98	+5	26.59	+1	38.50	−5	58.80	+5	36.86	−6	26.66	−1
11	36.05	+4	26.24	−2	38.22	−3	58.85	+6	36.76	−5	26.96	+2
12	36.12	+2	25.90	−4	37.95	0	58.89	+6	36.65	−4	27.26	+5
13	36.20	0	25.55	−7	37.67	+2	58.93	+5	36.54	−2	27.56	+7
14	36.28	−2	25.21	−8	37.40	+4	58.96	+3	36.43	0	27.85	+7
15	36.37	−4	24.87	−8	37.13	+6	58.99	+1	36.31	+2	28.14	+7
16	36.45	−5	24.53	−6	36.85	+6	59.01	−2	36.20	+4	28.43	+5
17	36.55	−5	24.20	−3	36.58	+5	59.03	−4	36.08	+5	28.71	+3
18	36.64	−4	23.86	0	36.31	+4	59.04	−5	35.95	+5	28.99	0
19	36.74	−3	23.53	+2	36.03	+2	59.05	−5	35.83	+4	29.27	−2
20	36.85	0	23.20	+4	35.76	−1	59.05	−4	35.70	+2	29.54	−4
21	36.95	+3	22.88	+5	35.49	−3	59.05	−2	35.57	−1	29.81	−5
22	37.07	+5	22.56	+4	35.22	−5	59.04	+2	35.44	−3	30.07	−4
23	37.18	+7	22.24	+2	34.95	−5	59.02	+5	35.30	−6	30.33	−1
24	37.30	+7	21.93	−2	34.68	−4	59.00	+8	35.16	−7	30.58	+2
25	37.42	+5	21.61	−5	34.41	−2	58.98	+10	35.02	−7	30.83	+5
26	37.55	+2	21.30	−8	34.14	+1	58.95	+9	34.88	−5	31.08	+8
27	37.68	−1	21.00	−9	33.88	+4	58.91	+6	34.73	−2	31.32	+9
28	37.81	−4	20.69	−7	33.62	+6	58.87	+2	34.59	+2	31.56	+8
sec δ, tg δ	85° 10′ 20″	11.882	−11.840		85° 20′ 50″	12.328	−12.287		84° 41′ 20″	10.803	−10.757	
	30	11.889	−11.847		60	12.335	−12.295		30	10.809	−10.763	

1919	Octantis 20 G. 7^m				Octantis 26 G. 6^m-7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 47^m$	in ^{s} 0.01	−87° 49′	in ″ 0.01	$16^h 30^m$	in ^{s} 0.01	−86° 13′	in ″ 0.01	$18^h 8^m$	in ^{s} 0.01	−87° 39′	in ″ 0.01
April 21	^{s} 56.48	+10	″ 24.32	+ 3	^{s} 54.59	+ 4	″ 4.36	+ 5	^{s} 1.18	+ 3	″ 30.95	+ 6
22	56.70	+ 8	24.66	− 1	54.86	+ 5	4.62	+ 1	1.75	+ 7	31.08	+ 3
23	56.92	+ 5	25.01	− 4	55.12	+ 4	4.87	− 3	2.32	+ 8	31.21	− 1
24	57.12	− 1	25.35	− 6	55.39	+ 2	5.13	− 6	2.88	+ 6	31.35	− 5
25	57.32	− 7	25.70	− 6	55.64	− 1	5.40	− 7	3.43	+ 2	31.49	− 7
26	57.51	−13	26.05	− 5	55.90	− 5	5.66	− 7	3.99	− 3	31.63	− 9
27	57.68	−17	26.40	− 2	56.15	− 9	5.93	− 5	4.53	− 9	31.78	− 8
28	57.85	−16	26.74	+ 2	56.39	−10	6.20	− 2	5.08	−13	31.93	− 5
29	58.01	−12	27.09	+ 5	56.63	− 9	6.47	+ 2	5.62	−15	32.09	− 1
30	58.16	− 5	27.44	+ 8	56.87	− 6	6.75	+ 6	6.15	−12	32.25	+ 3
Mai 1	58.30	+ 4	27.79	+ 8	57.10	− 1	7.03	+ 8	6.68	− 7	32.42	+ 7
2	58.44	+12	28.14	+ 6	57.33	+ 4	7.31	+ 8	7.20	+ 1	32.58	+ 9
3	58.56	+17	28.49	+ 2	57.55	+ 9	7.59	+ 6	7.72	+ 9	32.76	+ 9
4	58.68	+20	28.84	− 2	57.77	+12	7.87	+ 3	8.23	+16	32.93	+ 6
5	58.78	+18	29.18	− 6	57.98	+13	8.16	− 2	8.74	+20	33.11	+ 4
6	58.88	+13	29.53	− 9	58.19	+12	8.44	− 6	9.24	+20	33.29	− 1
7	58.97	+ 7	29.88	−11	58.39	+ 8	8.73	− 8	9.73	+17	33.48	− 5
8	59.05	− 1	30.23	−10	58.59	+ 4	9.02	−10	10.22	+12	33.67	− 8
9	59.12	− 6	30.57	− 8	58.79	0	9.32	− 9	10.70	+ 5	33.86	− 8
10	59.18	−11	30.92	− 5	58.98	− 4	9.61	− 7	11.18	− 1	34.06	− 7
11	59.23	−12	31.27	− 1	59.16	− 6	9.91	− 4	11.65	− 7	34.26	− 5
12	59.28	−11	31.61	+ 2	59.34	− 7	10.21	0	12.12	−11	34.46	− 3
13	59.31	− 8	31.95	+ 5	59.52	− 7	10.50	+ 3	12.58	−13	34.67	+ 1
14	59.34	− 4	32.30	+ 7	59.69	− 6	10.80	+ 6	13.03	−12	34.88	+ 4
15	59.35	0	32.64	+ 8	59.85	− 4	11.11	+ 8	13.47	−10	35.09	+ 6
16	59.36	+ 5	32.98	+ 8	60.01	− 1	11.41	+ 8	13.91	− 7	35.31	+ 8
17	59.36	+ 8	33.32	+ 6	60.17	+ 2	11.71	+ 7	14.34	− 2	35.53	+ 8
18	59.35	+10	33.66	+ 3	60.32	+ 4	12.02	+ 6	14.77	+ 2	35.75	+ 6
19	59.33	+10	33.99	0	60.46	+ 5	12.32	+ 2	15.19	+ 6	35.98	+ 4
20	59.30	+ 7	34.33	− 3	60.60	+ 5	12.63	− 1	15.60	+ 8	36.21	0
21	59.26	+ 2	34.67	− 5	60.73	+ 3	12.94	− 4	16.00	+ 7	36.44	− 3
22	59.22	− 5	35.00	− 6	60.86	0	13.25	− 7	16.40	+ 4	36.68	− 7
23	59.16	−12	35.33	− 5	60.98	− 4	13.56	− 7	16.79	− 1	36.92	− 8
24	59.10	−16	35.66	− 3	61.10	− 8	13.88	− 6	17.17	− 8	37.17	− 9
25	59.02	−18	35.99	+ 1	61.21	−10	14.19	− 3	17.55	−13	37.41	− 6
26	58.94	−16	36.31	+ 5	61.32	−11	14.50	+ 1	17.92	−16	37.66	− 3
27	58.85	−10	36.64	+ 7	61.42	− 9	14.81	+ 5	18.28	−15	37.91	+ 2
28	58.75	− 1	36.96	+ 8	61.51	− 4	15.13	+ 8	18.63	−11	38.16	+ 6
sec δ, tg δ	87° 49′ 30″		26.349	−26.330	86° 13′ 0″		15.155	−15.122	87° 39′ 30″		24.475	−24.454
	40		26.383	−26.364	10		15.166	−15.133	40		24.504	−24.483

1919	σ Octantis 6ᵐ				β Octantis 4ᵐ.1				τ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 31^m$	in ^{s} 0.01	$-89° 12'$	in $''$ 0.01	$22^h 37^m$	in ^{s} 0.01	$-81° 47'$	in $''$ 0.01	$23^h 16^m$	in ^{s} 0.01	$-87° 55'$	in $''$ 0.01
April 21	57.59	0	46.69	+ 6	48.84	− 2	57.97	+ 4	3.71	− 8	13.32	+ 3
22	59.39	+14	46.69	+ 4	48.97	0	57.69	+ 5	4.09	− 1	13.01	+ 4
23	61.18	+22	46.70	0	49.10	+ 2	57.42	+ 4	4.48	+ 6	12.71	+ 4
24	62.97	+25	46.69	− 4	49.22	+ 4	57.15	+ 1	4.87	+12	12.40	+ 2
25	64.75	+18	46.69	− 7	49.35	+ 4	56.88	− 2	5.28	+15	12.11	− 1
26	66.53	+ 5	46.71	− 9	49.48	+ 3	56.62	− 6	5.69	+15	11.81	− 4
27	68.30	−11	46.73	− 9	49.61	+ 1	56.36	− 8	6.10	+10	11.52	− 7
28	70.07	−28	46.76	− 7	49.74	− 1	56.11	− 9	6.52	+ 3	11.23	− 9
29	71.83	−38	46.79	− 4	49.88	− 3	55.86	− 8	6.95	− 4	10.95	− 8
30	73.58	−39	46.83	+ 1	50.01	− 4	55.62	− 5	7.39	−12	10.67	− 6
Mai 1	75.32	−30	46.87	+ 6	50.15	− 4	55.38	− 1	7.83	−16	10.39	− 1
2	77.06	−13	46.92	+ 9	50.29	− 3	55.15	+ 5	8.28	−16	10.12	+ 3
3	78.79	+10	46.97	+10	50.43	− 2	54.91	+ 9	8.73	−12	9.85	+ 8
4	80.51	+32	47.02	+ 9	50.57	+ 1	54.69	+11	9.19	− 5	9.59	+11
5	82.22	+49	47.08	+ 6	50.71	+ 3	54.47	+11	9.65	+ 3	9.33	+11
6	83.92	+57	47.15	+ 3	50.85	+ 5	54.25	+10	10.12	+10	9.08	+11
7	85.61	+55	47.22	− 1	51.00	+ 5	54.03	+ 7	10.59	+15	8.83	+ 8
8	87.30	+44	47.29	− 5	51.15	+ 5	53.83	+ 3	11.07	+18	8.58	+ 4
9	88.97	+28	47.37	− 7	51.29	+ 4	53.62	− 1	11.55	+16	8.34	0
10	90.63	+ 9	47.45	− 7	51.44	+ 3	53.42	− 4	12.04	+12	8.10	− 3
11	92.28	− 9	47.54	− 6	51.59	+ 1	53.22	− 6	12.53	+ 6	7.87	− 5
12	93.92	−24	47.63	− 4	51.73	− 1	53.03	− 7	13.03	0	7.64	− 7
13	95.54	−35	47.73	− 2	51.88	− 3	52.84	− 6	13.54	− 6	7.42	− 7
14	97.16	−39	47.83	+ 1	52.03	− 4	52.66	− 5	14.04	−11	7.20	− 6
15	98.76	−38	47.94	+ 4	52.18	− 5	52.48	− 3	14.56	−15	6.99	− 4
16	100.35	−30	48.05	+ 6	52.33	− 4	52.31	0	15.07	−16	6.78	− 2
17	101.93	−18	48.17	+ 7	52.49	− 3	52.14	+ 2	15.59	−14	6.57	+ 1
18	103.50	− 4	48.29	+ 6	52.64	− 2	51.98	+ 4	16.12	−10	6.37	+ 3
19	105.06	+10	48.41	+ 5	52.79	0	51.82	+ 5	16.65	− 4	6.17	+ 4
20	106.60	+21	48.54	+ 2	52.95	+ 2	51.67	+ 4	17.18	+ 3	5.98	+ 4
21	108.13	+25	48.67	− 2	53.11	+ 3	51.52	+ 2	17.72	+ 9	5.79	+ 3
22	109.65	+22	48.81	− 6	53.26	+ 4	51.38	− 1	18.26	+14	5.61	0
23	111.15	+10	48.95	− 8	53.42	+ 3	51.24	− 5	18.80	+15	5.44	− 3
24	112.63	− 6	49.10	− 9	53.58	+ 2	51.11	− 8	19.35	+12	5.27	− 7
25	114.10	−24	49.25	− 8	53.74	0	50.99	− 9	19.90	+ 6	5.10	− 9
26	115.54	−38	49.41	− 5	53.89	− 2	50.86	− 9	20.45	− 1	4.94	− 9
27	116.97	−44	49.57	− 1	54.05	− 4	50.75	− 7	21.00	− 9	4.79	− 8
28	118.37	−39	49.73	+ 3	54.21	− 5	50.64	− 3	21.56	−15	4.64	− 4
sec δ, tg δ	89° 12′ 40″	72.631	−72.624		81° 47′ 50″	7.009	−6.937		87° 55′ 0″	27.508	−27.490	
	50	72.887	−72.881		60	7.011	−6.940		10	27.545	−27.527	

1919	Octantis 4 G. 6^m				ζ Octantis 6^m–5^m				ι Octantis 6^m–5^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	1^h 41^m	in s 0.01	−85° 10′	in " 0.01	9^h 8^m	in s 0.01	−85° 20′	in " 0.01	12^h 46^m	in s 0.01	−84° 41′	in " 0.01
Mai 28	37.81	−4	20.69	−7	33.62	+6	58.87	+2	34.59	+2	31.56	+8
29	37.95	−6	20.39	−4	33.35	+6	58.82	−3	34.43	+5	31.79	+5
30	38.09	−7	20.09	0	33.09	+5	58.77	−8	34.28	+7	32.02	0
31	38.23	−6	19.80	+5	32.83	+2	58.71	−10	34.12	+7	32.24	−5
Juni 1	38.38	−4	19.51	+9	32.57	−1	58.65	−10	33.97	+6	32.46	−8
2	38.52	−1	19.22	+11	32.32	−4	58.58	−9	33.81	+4	32.68	−11
3	38.68	+2	18.94	+11	32.06	−6	58.51	−6	33.65	+1	32.89	−11
4	38.83	+4	18.66	+9	31.81	−7	58.43	−2	33.48	−2	33.10	−10
5	38.99	+5	18.39	+7	31.56	−7	58.35	+1	33.32	−4	33.30	−7
6	39.15	+5	18.11	+3	31.31	−6	58.26	+4	33.15	−5	33.50	−3
7	39.32	+4	17.85	−1	31.07	−4	58.16	+6	32.98	−5	33.69	0
8	39.49	+3	17.58	−4	30.82	−1	58.06	+6	32.81	−4	33.88	+4
9	39.66	+1	17.32	−6	30.58	+1	57.96	+5	32.64	−3	34.07	+6
10	39.84	−1	17.07	−7	30.34	+4	57.85	+4	32.47	0	34.25	+7
11	40.01	−3	16.81	−7	30.10	+5	57.74	+1	32.29	+2	34.42	+7
12	40.19	−5	16.57	−6	29.87	+6	57.62	−1	32.11	+3	34.59	+6
13	40.38	−5	16.33	−4	29.63	+6	57.50	−3	31.93	+5	34.75	+4
14	40.56	−5	16.09	−1	29.40	+4	57.37	−5	31.75	+5	34.91	+1
15	40.75	−4	15.85	+2	29.17	+3	57.24	−6	31.56	+5	35.06	−2
16	40.94	−1	15.63	+4	28.94	0	57.10	−5	31.38	+3	35.21	−4
17	41.13	+1	15.40	+5	28.72	−2	56.96	−3	31.19	+1	35.35	−5
18	41.33	+4	15.18	+5	28.49	−4	56.81	0	31.00	−2	35.49	−5
19	41.53	+6	14.96	+3	28.27	−5	56.66	+4	30.81	−5	35.62	−3
20	41.73	+7	14.75	0	28.05	−5	56.50	+7	30.62	−7	35.74	0
21	41.94	+6	14.55	−4	27.84	−3	56.34	+9	30.42	−7	35.86	+4
22	42.14	+4	14.35	−7	27.63	0	56.17	+10	30.23	−6	35.98	+7
23	42.35	0	14.15	−9	27.42	+3	56.00	+8	30.04	−3	36.09	+9
24	42.56	−3	13.96	−8	27.22	+5	55.83	+4	29.84	0	36.19	+9
25	42.77	−5	13.78	−6	27.01	+6	55.65	0	29.64	+3	36.29	+7
26	42.99	−7	13.60	−2	26.81	+6	55.47	−5	29.44	+6	36.39	+3
27	43.20	−7	13.42	+2	26.62	+4	55.28	−8	29.24	+7	36.48	−2
28	43.42	−5	13.25	+7	26.42	+1	55.09	−10	29.04	+7	36.56	−6
29	43.64	−2	13.09	+10	26.23	−2	54.89	−9	28.84	+5	36.64	−10
30	43.86	+1	12.93	+11	26.04	−5	54.69	−7	28.64	+2	36.71	−11
Juli 1	44.08	+4	12.77	+10	25.86	−7	54.48	−4	28.43	−1	36.78	−10
2	44.31	+5	12.62	+8	25.67	−7	54.27	0	28.23	−3	36.84	−8
3	44.53	+6	12.48	+4	25.50	−6	54.06	+3	28.02	−5	36.90	−5
4	44.76	+5	12.34	+1	25.32	−5	53.84	+5	27.82	−5	36.95	−1
sec δ, tg δ	85° 10′ 10″	11.875	−11.833		85° 20′ 50″	12.328	−12.287		84° 41′ 30″	10.809	−10.763	
	20	11.882	−11.840		60	12.335	−12.295		40	10.815	−10.768	

1919	Octantis 20 G. 7^m				Octantis 26 G. 6^m-7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 47^m$	in ^{s} 0.01	$-87° 49'$	in $''$ 0.01	$16^h 31^m$	in ^{s} 0.01	$-86° 13'$	in $''$ 0.01	$18^h 8^m$	in ^{s} 0.01	$-87° 39'$	in $''$ 0.01
Mai 28	58.75	− 1	36.96	+ 8	1.51	− 4	15.13	+ 8	18.63	−11	38.16	+ 6
29	58.64	+ 7	37.28	+ 7	1.60	+ 1	15.44	+ 8	18.97	− 4	38.42	+ 8
30	58.52	+15	37.60	+ 4	1.69	+ 6	15.75	+ 7	19.31	+ 4	38.68	+ 9
31	58.39	+18	37.92	0	1.77	+10	16.06	+ 4	19.64	+12	38.94	+ 7
Juni 1	58.25	+19	38.23	− 4	1.84	+13	16.38	0	19.96	+18	39.21	+ 4
2	58.11	+15	38.54	− 8	1.91	+12	16.69	− 4	20.27	+20	39.47	0
3	57.96	+10	38.85	−10	1.97	+10	17.01	− 7	20.58	+19	39.74	− 4
4	57.79	+ 2	39.15	−11	2.03	+ 6	17.32	− 9	20.87	+15	40.01	− 7
5	57.62	− 4	39.46	− 9	2.08	+ 2	17.63	− 9	21.16	+ 9	40.28	− 8
6	57.45	− 9	39.76	− 6	2.13	− 2	17.94	− 8	21.44	+ 2	40.56	− 8
7	57.26	−11	40.05	− 3	2.17	− 5	18.26	− 5	21.71	− 4	40.83	− 6
8	57.06	−11	40.35	+ 1	2.21	− 7	18.57	− 1	21.98	− 9	41.11	− 3
9	56.86	− 9	40.64	+ 4	2.24	− 7	18.88	+ 2	22.23	−11	41.39	− 1
10	56.65	− 6	40.93	+ 6	2.26	− 6	19.19	+ 5	22.48	−12	41.67	+ 2
11	56.43	− 1	41.22	+ 8	2.28	− 4	19.50	+ 7	22.71	−10	41.96	+ 5
12	56.20	+ 3	41.50	+ 8	2.29	− 2	19.81	+ 8	22.94	− 7	42.24	+ 7
13	55.96	+ 7	41.79	+ 7	2.30	+ 1	20.12	+ 8	23.16	− 3	42.52	+ 8
14	55.72	+10	42.06	+ 4	2.30	+ 4	20.43	+ 6	23.37	+ 1	42.81	+ 7
15	55.47	+11	42.34	+ 1	2.30	+ 5	20.74	+ 4	23.58	+ 6	43.10	+ 5
16	55.20	+ 9	42.61	− 2	2.29	+ 6	21.04	0	23.77	+ 8	43.39	+ 2
17	54.93	+ 5	42.88	− 5	2.27	+ 5	21.34	− 3	23.95	+ 8	43.68	− 2
18	54.66	− 2	43.14	− 6	2.25	+ 2	21.65	− 6	24.12	+ 6	43.97	− 5
19	54.37	− 9	43.40	− 6	2.23	− 2	21.95	− 7	24.29	+ 2	44.26	− 8
20	54.08	−14	43.66	− 4	2.20	− 6	22.25	− 7	24.45	− 5	44.56	− 9
21	53.78	−17	43.91	− 1	2.16	− 9	22.55	− 4	24.59	−11	44.85	− 7
22	53.47	−17	44.16	+ 3	2.12	−11	22.85	− 1	24.73	−15	45.15	− 4
23	53.16	−13	44.40	+ 7	2.07	−10	23.14	+ 3	24.86	−17	45.44	0
24	52.84	− 6	44.64	+ 8	2.01	− 7	23.44	+ 7	24.98	−14	45.74	+ 4
25	52.51	+ 3	44.88	+ 8	1.96	− 2	23.73	+ 9	25.10	− 8	46.04	+ 7
26	52.17	+11	45.11	+ 6	1.89	+ 3	24.02	+ 8	25.20	0	46.34	+ 9
27	51.83	+16	45.34	+ 2	1.82	+ 8	24.31	+ 6	25.29	+ 8	46.63	+ 8
28	51.48	+19	45.56	− 2	1.75	+11	24.60	+ 2	25.37	+15	46.93	+ 6
29	51.12	+16	45.78	− 6	1.67	+12	24.88	− 2	25.45	+19	47.23	+ 2
30	50.75	+11	46.00	− 9	1.58	+11	25.16	− 6	25.51	+19	47.53	− 2
Juli 1	50.38	+ 5	46.21	−11	1.49	+ 8	25.44	− 9	25.56	+16	47.83	− 6
2	50.00	− 2	46.42	−10	1.39	+ 3	25.72	−10	25.61	+11	48.12	− 8
3	49.62	− 7	46.62	− 8	1.29	− 1	25.99	− 9	25.64	+ 4	48.42	− 8
4	49.23	−11	46.82	− 4	1.18	− 4	26.26	− 6	25.67	− 2	48.72	− 7
sec δ, tg δ	87° 49′ 40″	26.383	−26.364		86° 13′ 20″	15.178	−15.145		87° 39′ 40″	24.504	−24.483	
	50	26.417	−26.398		30	15.189	−15.156		50	24.533	−24.513	

1919	σ Octantis 6ᵐ				β Octantis 4ᵐ.1				τ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 32^m$	in 0.01 s	−89° 12′	in 0.01″	$22^h 37^m$	in 0.01 s	−81° 47′	in 0.01″	$23^h 16^m$	in 0.01 s	−87° 55′	in 0.01″
Mai 28	58.37	−39	49.73	+3	54.21	−5	50.64	−3	21.56	−15	4.64	−4
29	59.76	−24	49.90	+7	54.37	−4	50.53	+2	22.12	−16	4.49	+1
30	61.13	−3	50.07	+9	54.53	−3	50.43	+7	22.68	−14	4.35	+5
31	62.49	+21	50.24	+9	54.68	0	50.34	+10	23.25	−8	4.22	+9
Juni 1	63.83	+41	50.42	+7	54.84	+2	50.25	+11	23.81	−1	4.09	+11
2	65.15	+54	50.60	+4	55.00	+4	50.16	+11	24.38	+8	3.97	+11
3	66.45	+57	50.79	0	55.16	+5	50.08	+8	24.95	+14	3.85	+9
4	67.74	+50	50.98	−4	55.32	+6	50.01	+5	25.53	+17	3.74	+6
5	69.01	+36	51.17	−6	55.48	+5	49.94	+1	26.10	+17	3.63	+2
6	70.26	+18	51.37	−7	55.64	+3	49.88	−3	26.68	+14	3.53	−1
7	71.49	−1	51.57	−7	55.80	+2	49.82	−5	27.26	+9	3.43	−4
8	72.70	−18	51.78	−5	55.96	0	49.77	−6	27.84	+2	3.34	−6
9	73.89	−30	51.99	−3	56.12	−2	49.72	−6	28.42	−4	3.25	−6
10	75.06	−36	52.20	0	56.28	−4	49.68	−5	29.00	−9	3.17	−6
11	76.21	−37	52.42	+3	56.44	−4	49.65	−3	29.59	−13	3.09	−4
12	77.33	−32	52.64	+5	56.60	−4	49.62	−1	30.18	−15	3.02	−2
13	78.44	−21	52.86	+7	56.76	−4	49.59	+2	30.76	−14	2.96	0
14	79.52	−7	53.09	+7	56.91	−2	49.57	+3	31.34	−11	2.90	+3
15	80.58	+7	53.32	+6	57.07	−1	49.56	+5	31.93	−6	2.85	+4
16	81.61	+20	53.55	+3	57.23	+1	49.55	+5	32.51	+1	2.80	+5
17	82.63	+26	53.79	0	57.39	+2	49.54	+4	33.09	+7	2.76	+4
18	83.62	+26	54.03	−4	57.54	+4	49.54	+1	33.68	+12	2.73	+2
19	84.59	+17	54.27	−7	57.70	+4	49.55	−3	34.26	+15	2.70	−1
20	85.54	+2	54.52	−9	57.86	+3	49.56	−6	34.84	+14	2.67	−5
21	86.46	−17	54.76	−9	58.02	+1	49.58	−9	35.42	+9	2.65	−8
22	87.36	−33	55.01	−7	58.17	−1	49.61	−10	36.00	+2	2.64	−10
23	88.23	−43	55.27	−3	58.33	−3	49.64	−8	36.58	−6	2.63	−9
24	89.08	−44	55.52	+1	58.48	−4	49.67	−5	37.16	−13	2.63	−6
25	89.91	−35	55.78	+5	58.64	−5	49.71	−1	37.74	−17	2.64	−2
26	90.71	−16	56.04	+8	58.79	−4	49.76	+4	38.31	−16	2.65	+3
27	91.48	+7	56.31	+9	58.94	−2	49.81	+8	38.88	−12	2.66	+7
28	92.23	+30	56.57	+8	59.09	+1	49.86	+10	39.46	−4	2.68	+10
29	92.95	+47	56.84	+5	59.24	+3	49.92	+10	40.03	+4	2.71	+11
30	93.65	+54	57.11	+2	59.39	+5	49.99	+9	40.60	+11	2.74	+10
Juli 1	94.32	+52	57.38	−2	59.53	+5	50.06	+6	41.16	+16	2.78	+7
2	94.97	+42	57.66	−5	59.67	+5	50.14	+2	41.73	+18	2.83	+3
3	95.59	+25	57.93	−7	59.82	+4	50.22	−1	42.29	+15	2.88	0
4	96.18	+6	58.21	−7	59.96	+2	50.31	−4	42.84	+11	2.93	−3
sec δ, tg δ	89° 12′ 50″	72.887	−72.881		81° 47′ 40″	7.006	−6.935		87° 55′ 0″	27.508	−27.490	
	60	73.146	−73.139		50	7.009	−6.937		10	27.545	−27.527	

1919	Octantis 4 G. 6^m				ζ Octantis $6^m - 5^m$				ι Octantis $6^m - 5^m$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 41^m$	in ^{s} 0.01	−85° 10′	in ″ 0.01	$9^h 8^m$	in ^{s} 0.01	−85° 20′	in ″ 0.01	$12^h 46^m$	in ^{s} 0.01	−84° 41′	in ″ 0.01
Juli 4	^{s}44.76	+5	″12.34	+1	^{s}25.32	−5	″53.84	+5	^{s}27.82	−5	″36.95	−1
5	44.99	+3	12.20	−3	25.15	−2	53.62	+6	27.61	−5	36.99	+2
6	45.22	+2	12.07	−5	24.98	0	53.39	+6	27.41	−3	37.03	+5
7	45.45	−1	11.95	−7	24.82	+3	53.17	+4	27.20	−1	37.06	+6
8	45.69	−3	11.83	−7	24.66	+5	52.93	+2	27.00	+1	37.09	+7
9	45.93	−4	11.72	−6	24.50	+6	52.70	0	26.79	+3	37.11	+6
10	46.16	−5	11.61	−5	24.35	+6	52.46	−3	26.58	+4	37.13	+4
11	46.40	−5	11.51	−2	24.20	+5	52.22	−5	26.37	+5	37.14	+2
12	46.64	−4	11.42	+1	24.05	+3	51.97	−6	26.17	+5	37.14	−1
13	46.88	−3	11.33	+4	23.91	+1	51.72	−6	25.96	+4	37.14	−3
14	47.12	0	11.24	+6	23.78	−1	51.47	−4	25.76	+2	37.13	−5
15	47.37	+3	11.17	+6	23.64	−4	51.21	−2	25.55	−1	37.11	−5
16	47.61	+5	11.09	+5	23.52	−5	50.96	+2	25.34	−3	37.09	−4
17	47.85	+6	11.03	+2	23.39	−5	50.70	+5	25.14	−6	37.07	−1
18	48.10	+6	10.97	−2	23.27	−4	50.44	+8	24.93	−7	37.04	+2
19	48.34	+5	10.92	−5	23.16	−1	50.17	+9	24.72	−6	37.00	+5
20	48.59	+2	10.87	−8	23.05	+2	49.90	+8	24.51	−4	36.96	+8
21	48.83	−1	10.82	−9	22.94	+4	49.63	+6	24.31	−1	36.91	+9
22	49.08	−4	10.79	−8	22.83	+6	49.36	+2	24.10	+2	36.86	+8
23	49.32	−6	10.76	−4	22.73	+6	49.08	−3	23.89	+5	36.80	+4
24	49.57	−7	10.73	0	22.64	+5	48.80	−7	23.69	+7	36.74	0
25	49.81	−6	10.71	+5	22.54	+3	48.52	−9	23.49	+7	36.67	−4
26	50.06	−3	10.70	+8	22.46	−1	48.24	−9	23.29	+5	36.59	−8
27	50.30	0	10.69	+10	22.37	−4	47.95	−8	23.09	+3	36.51	−10
28	50.55	+3	10.69	+10	22.29	−6	47.66	−5	22.89	0	36.42	−10
29	50.80	+5	10.69	+8	22.22	−7	47.37	−1	22.69	−3	36.33	−8
30	51.04	+5	10.70	+5	22.15	−7	47.08	+2	22.49	−5	36.23	−5
31	51.29	+5	10.72	+2	22.09	−5	46.78	+5	22.29	−5	36.13	−2
Aug. 1	51.53	+4	10.74	−2	22.02	−3	46.48	+6	22.10	−5	36.02	+1
2	51.77	+2	10.77	−5	21.97	0	46.19	+6	21.90	−4	35.90	+4
3	52.02	0	10.81	−7	21.92	+2	45.89	+5	21.71	−2	35.78	+6
4	52.26	−2	10.85	−7	21.87	+4	45.59	+3	21.52	0	35.66	+7
5	52.50	−4	10.89	−7	21.82	+5	45.29	+1	21.33	+2	35.53	+6
6	52.75	−5	10.94	−5	21.79	+6	44.99	−2	21.15	+4	35.39	+5
7	52.99	−5	11.00	−3	21.75	+5	44.68	−4	20.96	+5	35.25	+3
8	53.23	−5	11.06	0	21.72	+4	44.38	−5	20.78	+5	35.11	0
9	53.46	−3	11.13	+3	{21.70 {21.68	+2 −1	44.08 43.77	−6 −5	20.60	+4	34.96	−2
10	53.70	−1	11.21	+5	21.66	−3	43.47	−3	20.42	+3	34.80	−4
sec δ, tg δ	85° 10′ 10″	11.875	−11.833		85° 20′ 40″	12.321	−12.280		84° 41′ 30″	10.809	−10.763	
	20	11.882	−11.840		50	12.328	−12.287		40	10.815	−10.768	

1919	Octantis 20 G. 7^m				Octantis 26 G. 6^m-7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 47^m$	in s 0.01	−87° 49′	in ″ 0.01	$16^h 30^m$	in s 0.01	−86° 13′	in ″ 0.01	$18^h 8^m$	in s 0.01	−87° 39′	in ″ 0.01
Juli 4	49.23	−11	46.82	− 4	61.18	− 4	26.26	− 6	25.67	− 2	48.72	− 7
5	48.83	−12	47.01	0	61.07	− 6	26.53	− 3	25.69	− 7	49.02	− 5
6	48.43	−10	47.20	+ 3	60.95	− 7	26.80	+ 1	25.69	−10	49.32	− 2
7	48.02	− 7	47.39	+ 6	60.83	− 6	27.06	+ 4	25.69	−12	49.62	+ 1
8	47.61	− 3	47.57	+ 7	60.70	− 5	27.32	+ 6	25.68	−11	49.92	+ 4
9	47.19	+ 2	47.75	+ 8	60.57	− 3	27.58	+ 8	25.66	− 8	50.22	+ 6
10	46.77	+ 6	47.92	+ 7	60.43	0	27.84	+ 8	25.63	− 5	50.52	+ 7
11	46.34	+10	48.08	+ 5	60.28	+ 3	28.09	+ 7	25.59	0	50.81	+ 7
12	45.90	+11	48.24	+ 2	60.14	+ 5	28.34	+ 5	25.54	+ 5	51.10	+ 6
13	45.46	+10	48.40	− 1	59.98	+ 6	28.59	+ 1	25.48	+ 8	51.40	+ 3
14	45.02	+ 7	48.55	− 4	59.82	+ 6	28.83	− 2	25.41	+10	51.69	0
15	44.57	+ 2	48.69	− 6	59.66	+ 4	29.07	− 5	25.34	+ 9	51.98	− 4
16	44.11	− 5	48.83	− 6	59.50	0	29.30	− 7	25.25	+ 5	52.27	− 7
17	43.65	−11	48.97	− 5	59.32	− 4	29.54	− 7	25.16	− 1	52.56	− 8
18	43.19	−16	49.10	− 2	59.15	− 7	29.76	− 6	25.05	− 7	52.84	− 8
19	42.72	−17	49.22	+ 1	58.97	−10	29.99	− 2	24.94	−13	53.13	− 6
20	42.25	−14	49.34	+ 5	58.78	−10	30.21	+ 1	24.82	−16	53.41	− 2
21	41.77	− 9	49.45	+ 8	58.59	− 8	30.43	+ 5	24.68	−15	53.70	+ 2
22	41.29	− 1	49.56	+ 9	58.40	− 4	30.64	+ 8	24.54	−11	53.98	+ 6
23	40.81	+ 7	49.66	+ 8	58.20	+ 1	30.85	+ 9	24.39	− 4	54.26	+ 8
24	40.32	+14	49.76	+ 5	58.00	+ 6	31.06	+ 7	24.23	+ 4	54.53	+ 9
25	39.83	+17	49.85	0	57.79	+ 9	31.26	+ 4	24.07	+11	54.81	+ 7
26	39.33	+17	49.94	− 4	57.58	+11	31.46	0	23.89	+17	55.08	+ 4
27	38.84	+13	50.02	− 8	57.36	+11	31.65	− 4	23.70	+18	55.35	− 1
28	38.33	+ 7	50.10	−10	57.14	+ 8	31.84	− 8	23.50	+17	55.62	− 4
29	37.83	0	50.17	−10	56.92	+ 5	32.03	− 9	23.30	+12	55.89	− 7
30	37.32	− 6	50.23	− 8	56.69	+ 1	32.21	− 9	23.08	+ 6	56.15	− 8
31	36.82	−10	50.29	− 5	56.46	− 3	32.38	− 7	22.86	0	56.41	− 8
Aug. 1	36.31	−12	50.35	− 2	56.22	− 6	32.55	− 4	22.62	− 6	56.67	− 6
2	35.80	−11	50.39	+ 2	55.99	− 7	32.72	− 1	22.38	−10	56.92	− 3
3	35.28	− 8	50.43	+ 5	55.74	− 7	32.88	+ 3	22.13	−12	57.17	0
4	34.77	− 4	50.47	+ 7	55.50	− 6	33.04	+ 5	21.88	−11	57.42	+ 3
5	34.25	0	50.50	+ 8	55.25	− 4	33.19	+ 7	21.61	−10	57.67	+ 6
6	33.73	+ 5	50.52	+ 7	55.00	− 1	33.34	+ 8	21.34	− 6	57.91	+ 7
7	33.21	+ 9	50.54	+ 6	54.74	+ 2	33.48	+ 7	21.07	− 2	58.15	+ 8
8	32.69	+11	50.55	+ 3	54.48	+ 4	33.62	+ 6	20.78	+ 3	58.39	+ 7
9	32.17	+11	50.56	0	54.22	+ 6	33.75	+ 3	20.48	+ 7	58.62	+ 4
10	31.64	+ 9	50.56	− 3	53.95	+ 6	33.88	− 1	20.18	+ 9	58.85	+ 1
sec δ, tg δ	87° 49′ 40″	26.383	−26.364		86° 13′ 30″	15.189	−15.156		87° 39′ 50″	24.533	−24.513	
	50	26.417	−26.398		40	15.200	−15.167		60	24.562	−24.542	

1919	σ Octantis 6ᵐ				β Octantis 4ᵐ.1				τ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 33^m$	in 0.01 s	−89° 12′	in 0.01″	$22^h 37^m$	in 0.01 s	−81° 47′	in 0.01″	$23^h 16^m$	in 0.01 s	−87° 55′	in 0.01″
Juli 4	36.18 s	+ 6	58.21″	− 7	59.96 s	+ 2	50.31″	− 4	42.84 s	+11	2.93″	− 3
5	36.75	−11	58.49	− 6	60.10	0	50.40	− 6	43.40	+ 5	2.99	− 5
6	37.29	−25	58.78	− 3	60.24	− 1	50.50	− 6	43.95	− 1	3.06	− 6
7	37.80	−33	59.06	− 1	60.38	− 3	50.60	− 5	44.50	− 7	3.13	− 6
8	38.29	−36	59.35	+ 2	60.51	− 4	50.71	− 4	45.05	−12	3.20	− 5
9	38.75	−33	59.63	+ 4	60.65	− 4	50.82	− 2	45.59	−14	3.28	− 3
10	39.18	−25	59.92	+ 6	60.79	− 4	50.94	+ 1	46.13	−15	3.37	0
11	39.59	−12	60.21	+ 7	60.92	− 3	51.06	+ 3	46.66	−13	3.46	+ 1
12	39.96	+ 3	60.50	+ 6	61.05	− 1	51.19	+ 5	47.19	− 8	3.56	+ 4
13	40.31	+16	60.79	+ 5	61.18	0	51.32	+ 5	47.72	− 2	3.66	+ 5
14	40.63	+26	61.08	+ 2	61.31	+ 2	51.46	+ 5	48.24	+ 5	3.77	+ 5
15	40.92	+29	61.37	− 2	61.44	+ 3	51.60	+ 3	48.76	+11	3.88	+ 3
16	41.19	+24	61.67	− 5	61.57	+ 4	51.75	− 1	49.27	+14	4.00	0
17	41.43	+11	61.96	− 8	61.69	+ 3	51.91	− 4	49.78	+15	4.13	− 3
18	41.64	− 7	62.26	− 9	61.81	+ 2	52.07	− 7	50.28	+11	4.26	− 7
19	41.82	−25	62.55	− 8	61.93	0	52.23	− 9	50.78	+ 5	4.39	− 9
20	41.97	−39	62.85	− 5	62.05	− 2	52.40	− 9	51.27	− 3	4.53	− 9
21	42.10	−45	63.15	− 1	62.17	− 4	52.57	− 7	51.76	−10	4.67	− 7
22	42.19	−40	63.44	+ 4	62.28	− 5	52.75	− 3	52.24	−16	4.82	− 4
23	42.26	−25	63.74	+ 7	62.39	− 4	52.93	+ 3	52.71	−17	4.98	0
24	42.30	− 4	64.04	+ 9	62.50	− 3	53.11	+ 6	53.18	−14	5.14	+ 5
25	42.31	+19	64.33	+ 9	62.61	0	53.30	+ 9	53.64	− 8	5.30	+ 8
26	42.30	+38	64.63	+ 6	62.72	+ 2	53.49	+10	54.10	0	5.47	+10
27	42.25	+50	64.93	+ 3	62.83	+ 4	53.69	+ 9	54.55	+ 8	5.65	+10
28	42.18	+52	65.23	− 1	62.93	+ 5	53.89	+ 7	54.99	+14	5.83	+ 8
29	42.07	+44	65.53	− 4	63.03	+ 5	54.10	+ 3	55.43	+17	6.01	+ 5
30	41.93	+30	65.83	− 6	63.13	+ 5	54.31	− 1	55.86	+16	6.20	+ 1
31	41.77	+12	66.12	− 7	63.22	+ 3	54.53	− 3	56.28	+13	6.39	− 2
Aug. 1	41.58	− 6	66.42	− 6	63.32	+ 1	54.74	− 5	56.70	+ 7	6.59	− 5
2	41.36	−21	66.71	− 4	63.41	− 1	54.97	− 6	57.11	+ 1	6.79	− 6
3	41.11	−31	67.01	− 2	63.50	− 3	55.19	− 6	57.51	− 5	7.00	− 6
4	40.83	−36	67.30	+ 1	63.59	− 4	55.42	− 5	57.90	−10	7.21	− 5
5	40.53	−35	67.60	+ 4	63.67	− 4	55.65	− 2	58.29	−14	7.42	− 4
6	40.19	−28	67.89	+ 6	63.76	− 4	55.89	0	58.67	−15	7.64	− 1
7	39.83	−17	68.18	+ 7	63.84	− 3	56.13	+ 2	59.04	−14	7.86	+ 1
8	39.44	− 4	68.46	+ 7	63.92	− 2	56.37	+ 4	59.40	−10	8.09	+ 3
9	39.02	+11	68.75	+ 5	64.00	0	56.62	+ 5	59.75	− 5	8.32	+ 5
10	38.58	+23	69.03	+ 3	64.07	+ 1	56.87	+ 5	60.09	+ 2	8.56	+ 5
sec δ, tg δ	89° 12′ 60″	73.146	−73.139		81° 47′ 50″	7.009	−6.937		87° 55′ 0″	27.508	−27.490	
	70	73.406	−73.399		60	7.011	−6.940		10	27.545	−27.527	

1919	Octantis 4 G. 6^m AR.	☾ Gl.	Dekl.	☾ Gl.	ζ Octantis 6^m–5^m AR.	☾ Gl.	Dekl.	☾ Gl.	ι Octantis 6^m–5^m AR.	☾ Gl.	Dekl.	☾ Gl.
	1^h 41^m	in 0.01^s	−85° 10′	in 0.01″	9^h 8^m	in 0.01^s	−85° 20′	in 0.01″	12^h 46^m	in 0.01^s	−84° 41′	in 0.01″
Aug. 10	53.70	− 1	11.21	+ 5	21.66	− 3	43.47	− 3	20.42	+ 3	34.80	− 4
11	53.93	+ 2	11.29	+ 6	21.65	− 5	43.16	0	20.24	0	34.64	− 5
12	54.16	+ 4	11.38	+ 5	21.65	− 5	42.85	+ 4	20.07	− 2	34.48	− 5
13	54.40	+ 6	11.47	+ 3	21.65	− 5	42.55	+ 7	19.89	− 5	34.31	− 3
14	54.63	+ 7	11.57	0	21.65	− 3	42.24	+ 9	19.72	− 6	34.13	0
15	54.85	+ 6	11.67	− 4	21.66	0	41.93	+ 9	19.55	− 7	33.95	+ 3
16	55.08	+ 3	11.78	− 7	21.68	+ 3	41.63	+ 7	19.38	− 5	33.77	+ 6
17	55.31	0	11.90	− 8	21.70	+ 5	41.32	+ 3	19.21	− 2	33.58	+ 8
18	55.53	− 3	12.02	− 8	21.73	+ 6	41.01	− 1	19.05	+ 1	33.38	+ 8
19	55.76	− 6	12.15	− 6	21.76	+ 6	40.70	− 5	18.89	+ 4	33.18	+ 6
20	55.97	− 7	12.28	− 2	21.79	+ 4	40.39	− 8	18.73	+ 6	32.98	+ 2
21	56.19	− 6	12.42	+ 3	21.83	+ 1	40.09	− 9	18.57	+ 7	32.77	− 2
22	56.41	− 4	12.57	+ 7	21.87	− 2	39.78	− 9	18.42	+ 6	32.56	− 6
23	56.62	− 1	12.71	+ 9	21.92	− 5	39.48	− 6	18.27	+ 4	32.34	− 9
24	56.83	+ 2	12.87	+10	21.97	− 7	39.17	− 2	18.12	+ 1	32.12	−10
25	57.05	+ 4	13.03	+ 9	22.03	− 7	38.87	+ 1	17.98	− 2	31.90	− 9
26	57.25	+ 5	13.19	+ 6	22.09	− 6	38.57	+ 4	17.84	− 4	31.67	− 7
27	57.46	+ 6	13.36	+ 3	22.15	− 4	38.27	+ 6	17.70	− 5	31.44	− 3
28	57.66	+ 5	13.54	− 1	22.22	− 1	37.97	+ 6	17.56	− 5	31.20	0
29	57.86	+ 3	13.72	− 4	22.30	+ 1	37.67	+ 6	17.43	− 4	30.96	+ 3
30	58.05	+ 1	13.90	− 6	22.38	+ 3	37.38	+ 4	17.29	− 3	30.71	+ 6
31	58.24	− 1	14.09	− 7	22.47	+ 5	37.08	+ 2	17.17	− 1	30.46	+ 7
Sept. 1	58.43	− 3	14.29	− 7	22.56	+ 6	36.79	− 1	17.04	+ 1	30.21	+ 7
2	58.62	− 4	14.49	− 6	22.65	+ 6	36.50	− 3	16.92	+ 3	29.95	+ 6
3	58.80	− 5	14.69	− 4	22.75	+ 5	36.21	− 5	16.80	+ 4	29.69	+ 4
4	58.99	− 5	14.90	− 2	22.85	+ 3	35.93	− 6	16.69	+ 5	29.43	+ 2
5	59.16	− 4	15.12	+ 1	22.96	+ 1	35.64	− 5	16.58	+ 5	29.16	− 1
6	59.34	− 2	15.34	+ 4	23.07	− 2	35.36	− 4	16.47	+ 3	28.89	− 3
7	59.51	+ 1	15.56	+ 5	23.19	− 4	35.08	− 1	16.37	+ 1	28.62	− 5
8	59.68	+ 3	15.79	+ 6	23.31	− 5	34.80	+ 2	16.27	− 1	28.35	− 5
9	59.84	+ 5	16.02	+ 4	23.44	− 5	34.53	+ 5	16.18	− 4	28.07	− 4
10	60.00	+ 6	16.26	+ 2	23.57	− 4	34.26	+ 8	16.09	− 6	27.79	− 1
11	60.16	+ 6	16.50	− 2	23.71	− 1	33.99	+ 9	16.00	− 7	27.51	+ 2
12	60.31	+ 4	16.74	− 5	23.85	+ 2	33.72	+ 7	15.92	− 6	27.22	+ 5
13	60.46	+ 1	16.99	− 7	23.99	+ 4	33.46	+ 4	15.84	− 4	26.94	+ 7
14	60.61	− 2	17.24	− 8	24.14	+ 6	33.19	0	15.76	− 1	26.65	+ 8
15	60.75	− 5	17.50	− 6	24.29	+ 6	32.94	− 4	15.69	+ 3	26.35	+ 6
16	60.89	− 7	17.76	− 3	24.45	+ 4	32.68	− 8	15.62	+ 6	26.06	+ 3
sec δ, tg δ	85° 10′ 10″	11.875	−11.833		85° 20′ 30″	12.313	−12.273		84° 41′ 30″	10.809	−10.763	
	20	11.882	−11.840		40	12.321	−12.280		40	10.815	−10.768	

1919	Octantis 20 G. 7^m				Octantis 26 G. 6^m-7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	Gl.
	$14^h 47^m$	in ^{s} 0.01	$-87° 49'$	in $''$ 0.01	$16^h 30^m$	in ^{s} 0.01	$-86° 13'$	in $''$ 0.01	$18^h 8^m$	in ^{s} 0.01	$-87° 39'$	in $''$ 0.01
Aug. 10	$31^s.64$	+ 9	$50''.56$	− 3	$53^s.95$	+ 6	$33''.88$	− 1	$20^s.18$	+ 9	$58''.85$	+ 1
11	31.12	+ 4	50.55	− 5	53.69	+ 5	34.00	− 4	19.87	+ 9	59.07	− 2
12	30.60	− 2	50.54	− 7	53.42	+ 2	34.12	− 7	19.55	+ 7	59.29	− 6
13	30.08	− 8	50.52	− 6	53.14	− 2	34.23	− 8	19.23	+ 2	59.51	− 8
14	29.55	−14	50.50	− 4	52.87	− 6	34.34	− 7	18.90	− 4	59.73	− 8
15	29.03	−16	50.47	− 1	52.59	− 9	34.44	− 4	18.56	−10	59.94	− 7
16	28.51	−15	50.44	+ 3	52.31	−10	34.54	− 1	18.21	−14	60.15	− 4
17	27.99	−11	50.40	+ 6	52.03	− 9	34.63	+ 4	17.85	−15	60.35	+ 1
18	27.47	− 4	50.35	+ 8	51.74	− 6	34.72	+ 7	17.49	−12	60.55	+ 5
19	26.95	+ 5	50.30	+ 8	51.45	− 1	34.80	+ 9	17.12	− 7	60.74	+ 8
20	26.43	+12	50.24	+ 6	51.16	+ 4	34.88	+ 8	16.74	+ 1	60.93	+ 9
21	25.91	+16	50.18	+ 2	50.87	+ 8	34.95	+ 6	16.35	+ 9	61.12	+ 8
22	25.40	+18	50.11	− 2	50.57	+11	35.01	+ 2	15.96	+15	61.30	+ 5
23	24.88	+15	50.03	− 6	50.28	+11	35.07	− 3	15.57	+18	61.47	+ 1
24	24.37	+ 9	49.95	− 9	49.98	+ 9	35.12	− 6	15.17	+17	61.65	− 3
25	23.86	+ 2	49.87	−10	49.69	+ 6	35.17	− 9	14.76	+14	61.81	− 6
26	23.35	− 4	49.77	− 9	49.39	+ 2	35.21	− 9	14.35	+ 8	61.98	− 8
27	22.84	− 9	49.67	− 6	49.09	− 2	35.24	− 8	13.93	+ 2	62.14	− 8
28	22.34	−12	49.57	− 3	48.79	− 5	35.27	− 5	13.50	− 4	62.29	− 7
29	21.84	−12	49.46	+ 1	48.49	− 7	35.29	− 2	13.07	− 9	62.44	− 4
30	21.34	−10	49.34	+ 4	48.18	− 7	35.31	+ 1	12.63	−11	62.58	− 1
31	20.85	− 6	49.22	+ 6	47.88	− 6	35.32	+ 4	12.19	−12	62.72	+ 2
Sept. 1	20.36	− 2	49.09	+ 8	47.57	− 4	35.33	+ 7	11.74	−11	62.85	+ 5
2	19.88	+ 3	48.96	+ 8	47.27	− 2	35.33	+ 8	11.29	− 8	62.98	+ 7
3	19.40	+ 7	48.82	+ 7	46.96	0	35.32	+ 8	10.84	− 4	63.10	+ 7
4	18.93	+ 9	48.68	+ 5	46.66	+ 3	35.31	+ 7	10.38	0	63.22	+ 7
5	18.46	+10	48.53	+ 2	46.35	+ 5	35.29	+ 4	9.92	+ 5	63.33	+ 5
6	17.99	+ 9	48.38	− 1	46.05	+ 6	35.27	+ 1	9.45	+ 8	63.44	+ 3
7	17.53	+ 6	48.22	− 4	45.74	+ 5	35.24	− 3	8.98	+ 9	63.54	− 1
8	17.07	0	48.06	− 6	45.43	+ 3	35.21	− 5	8.50	+ 7	63.64	− 4
9	16.62	− 6	47.89	− 6	45.13	0	35.17	− 7	8.02	+ 4	63.73	− 7
10	16.17	−12	47.72	− 5	44.82	− 4	35.12	− 7	7.54	− 2	63.81	− 8
11	15.73	−15	47.54	− 2	44.52	− 7	35.07	− 5	7.05	− 7	63.89	− 8
12	15.29	−16	47.35	+ 1	44.22	− 9	35.01	− 2	6.56	−12	63.97	− 5
13	14.86	−12	47.17	+ 5	43.91	− 9	34.95	+ 2	6.07	−14	64.04	− 1
14	14.44	− 6	46.97	+ 7	43.61	− 7	34.88	+ 5	5.58	−13	64.10	+ 3
15	14.02	+ 2	46.77	+ 8	43.31	− 3	34.81	+ 8	5.08	− 8	64.16	+ 7
16	13.61	+10	46.57	+ 7	43.00	+ 3	34.73	+ 8	4.58	− 1	64.21	+ 9
sec δ, tg δ	87° 49′ 40″	26.383	−26.364		86° 13′ 30″	15.189	−15.156		87° 39′ 60″	24.562	−24.542	
	50	26.417	−26.398		40	15.200	−15.167		70	24.591	−24.571	

1919	σ Octantis 6^m^				β Octantis 4^m^.1				τ Octantis 6^m^			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	19^h^ 33^m^	in ^s^ 0.01	−89° 13′	in ″ 0.01	22^h^ 38^m^	in ^s^ 0.01	−81° 47′	in ″ 0.01	23^h^ 17^m^	in ^s^ 0.01	−87° 55′	in ″ 0.01
Aug. 10	38.58	+23	9.03	+3	4.07	+1	56.87	+5	0.09	+2	8.56	+5
11	38.11	+29	9.31	−1	4.14	+3	57.12	+4	0.43	+8	8.79	+4
12	37.61	+28	9.59	−4	4.21	+4	57.37	+1	0.76	+13	9.04	+2
13	37.08	+19	9.87	−7	4.28	+4	57.63	−3	1.07	+15	9.28	−1
14	36.53	+3	10.15	−9	4.34	+3	57.89	−6	1.38	+13	9.53	−5
15	35.94	−15	10.42	−8	4.40	+1	58.15	−8	1.69	+8	9.78	−7
16	35.33	−31	10.70	−6	4.46	−1	58.42	−9	1.98	+1	10.04	−9
17	34.70	−41	10.97	−2	4.52	−3	58.69	−7	2.26	−7	10.30	−8
18	34.03	−40	11.24	+2	4.57	−4	58.96	−4	2.54	−13	10.56	−5
19	33.34	−30	11.50	+6	4.62	−4	59.23	0	2.81	−16	10.83	−1
20	32.62	−12	11.77	+9	4.67	−3	59.51	+5	3.06	−15	11.09	+3
21	31.88	+10	12.03	+9	4.71	−1	59.79	+8	3.31	−10	11.37	+7
22	31.11	+31	12.28	+8	4.75	+1	60.07	+10	3.54	−3	11.64	+10
23	30.31	+46	12.54	+4	4.79	+3	60.35	+10	3.77	+5	11.92	+10
24	29.49	+51	12.79	0	4.82	+5	60.64	+7	3.98	+12	12.20	+9
25	28.64	+47	13.04	−3	4.86	+5	60.92	+4	4.19	+16	12.48	+5
26	27.77	+35	13.29	−6	4.89	+5	61.21	+1	4.39	+17	12.76	+2
27	26.88	+18	13.53	−7	4.92	+4	61.50	−2	4.57	+14	13.05	−1
28	25.96	0	13.77	−7	4.94	+2	61.79	−5	4.75	+10	13.34	−4
29	25.01	−17	14.01	−5	4.96	0	62.08	−6	4.92	+3	13.63	−6
30	24.04	−29	14.24	−3	4.98	−2	62.37	−6	5.07	−3	13.92	−6
31	23.05	−35	14.47	0	5.00	−3	62.67	−5	5.22	−9	14.22	−6
Sept. 1	22.04	−36	14.69	+2	5.01	−4	62.96	−3	5.35	−13	14.51	−4
2	21.00	−32	14.91	+5	5.02	−4	63.26	−1	5.47	−15	14.81	−2
3	19.94	−23	15.13	+6	5.03	−4	63.55	+1	5.59	−14	15.11	0
4	18.87	−10	15.34	+7	5.04	−3	63.85	+3	5.69	−12	15.41	+2
5	17.77	+4	15.55	+6	5.04	−1	64.15	+5	5.78	−7	15.72	+4
6	16.64	+16	15.76	+4	5.04	+1	64.45	+5	5.86	−1	16.02	+5
7	15.50	+25	15.96	+1	5.04	+2	64.75	+4	5.93	+6	16.33	+4
8	14.34	+27	16.16	−3	5.03	+3	65.05	+2	5.99	+11	16.64	+3
9	13.15	+22	16.35	−6	5.03	+4	65.35	−1	6.03	+14	16.95	0
10	11.95	+9	16.54	−8	5.01	+3	65.65	−4	6.07	+14	17.25	−3
11	10.72	−7	16.72	−9	5.00	+2	65.95	−7	6.09	+11	17.56	−6
12	9.48	−24	16.90	−7	4.98	0	66.25	−8	6.11	+4	17.87	−8
13	8.22	−36	17.07	−4	4.96	−2	66.55	−8	6.11	−4	18.18	−8
14	6.94	−40	17.24	0	4.94	−4	66.85	−5	6.11	−11	18.49	−6
15	5.65	−33	17.40	+5	4.92	−4	67.15	−1	6.09	−15	18.80	−2
16	4.33	−18	17.56	+8	4.89	−4	67.45	+4	6.06	−16	19.11	+2
sec δ, tg δ	89° 13′ 10″	73.406	−73.399		81° 47′ 60″	7.011	−6.940		87° 55′ 10″	27.545	−27.527	
	20	73.668	−73.661		70	7.014	−6.942		20	27.582	−27.563	

1919	Octantis 4 G. 6ᵐ				ζ Octantis 6ᵐ – 5ᵐ				ι Octantis 6ᵐ – 5ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 42^m$	in ^{s} 0.01	$-85°10'$	in $''$ 0.01	$9^h 8^m$	in ^{s} 0.01	$-85°20'$	in $''$ 0.01	$12^h 46^m$	in ^{s} 0.01	$-84°41'$	in $''$ 0.01
Sept. 16	^{s}0.89	−7	$''$17.76	−3	^{s}24.45	+4	$''$32.68	−8	^{s}15.62	+6	$''$26.06	+3
17	1.03	−7	18.02	+1	24.61	+2	32.43	−10	15.55	+7	25.76	−1
18	1.16	−5	18.29	+6	24.78	−1	32.18	−9	15.49	+7	25.46	−5
19	1.29	−3	18.56	+9	24.95	−4	31.94	−7	15.43	+5	25.16	−9
20	1.41	0	18.84	+10	25.12	−6	31.70	−4	15.38	+3	24.85	−10
21	1.53	+3	19.12	+10	25.30	−7	31.47	0	15.33	0	24.55	−10
22	1.64	+5	19.40	+8	25.48	−6	31.24	+3	15.29	−3	24.24	−8
23	1.75	+6	19.68	+4	25.66	−5	31.02	+5	15.25	−5	23.94	−5
24	1.86	+5	19.97	+1	25.85	−2	30.80	+6	15.21	−5	23.63	−1
25	1.96	+4	20.26	−3	26.04	0	30.58	+6	15.18	−5	23.32	+2
26	2.06	+2	20.56	−5	26.23	+3	30.37	+5	15.15	−4	23.01	+5
27	2.15	0	20.86	−7	26.43	+4	30.16	+3	15.13	−2	22.70	+6
28	2.24	−2	21.16	−7	26.63	+5	29.95	0	15.11	+1	22.39	+7
29	2.32	−4	21.46	−7	26.84	+6	29.75	−2	15.10	+2	22.07	+6
30	2.40	−5	21.76	−5	27.04	+5	29.56	−4	15.09	+4	21.76	+5
Okt. 1	2.47	−5	22.07	−3	27.26	+4	29.37	−5	15.09	+5	21.44	+3
2	2.54	−4	22.37	0	27.47	+2	29.18	−5	15.09	+5	21.13	0
3	2.61	−3	22.68	+2	27.69	−1	29.00	−4	15.09 15.10	+4 +2	20.81 20.50	−2 −4
4	2.67	0	22.99	+4	27.91	−3	28.83	−2	15.11	0	20.18	−5
5	2.73	+2	23.31	+5	28.14	−4	28.66	+1	15.13	−3	19.86	−4
6	2.78	+5	23.62	+4	28.37	−5	28.49	+5	15.15	−5	19.55	−2
7	2.83	+6	23.94	+2	28.60	−4	28.33	+7	15.18	−6	19.24	+1
8	2.87	+7	24.26	−1	28.83	−2	28.17	+9	15.21	−7	18.92	+4
9	2.91	+5	24.57	−4	29.07	+1	28.03	+8	15.24	−5	18.61	+7
10	2.94	+2	24.89	−7	29.31	+3	27.88	+6	15.28	−2	18.30	+8
11	2.96	−1	25.22	−8	29.55	+5	27.75	+2	15.33	+1	17.99	+7
12	2.99	−4	25.54	−7	29.80	+6	27.62	−2	15.37	+4	17.68	+4
13	3.00	−6	25.86	−4	30.04	+5	27.49	−6	15.43	+6	17.37	0
14	3.01	−7	26.19	0	30.29	+3	27.37	−9	15.48	+7	17.07	−4
15	3.02	−6	26.51	+4	30.54	0	27.26	−10	15.54	+6	16.76	−8
16	3.02	−4	26.84	+8	30.80	−3	27.15	−9	15.61	+4	16.45	−10
17	3.02	−1	27.16	+10	31.06	−6	27.05	−6	15.68	+1	16.15	−11
18	3.01	+2	27.49	+10	31.32	−7	26.95	−2	15.76	−2	15.85	−9
19	3.00	+4	27.81	+9	31.58	−7	26.87	+1	15.84	−4	15.55	−6
20	2.99	+5	28.13	+6	31.84	−6	26.78	+4	15.92	−5	15.26	−3
21	2.96	+5	28.46	+2	32.10	−3	26.71	+6	16.01	−5	14.96	+1
22	2.94	+4	28.78	−1	32.36	−1	26.64	+6	16.10	−4	14.67	+4
23	2.91	+3	29.10	−4	32.63	+2	26.57	+5	16.20	−2	14.38	+6
sec δ. tg δ	85° 10′ 20″	11.882	−11.840		85° 20′ 20″	12.306	−12.265		84° 41′ 20″	10.803	−10.757	
	30	11.889	−11.847		30	12.313	−12.273		30	10.809	−10.763	

1919	Octantis 20 G. 7ᵐ				Octantis 26 G. 6ᵐ–7ᵐ				χ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 47^m$	in s 0.01	−87° 49′	in ″ 0.01	$16^h 30^m$	in s 0.01	−86° 13′	in ″ 0.01	$18^h 7^m$	in s 0.01	−87° 40′	in ″ 0.01
Sept. 16	13.61	+10	46.57	+ 7	43.00	+ 3	34.73	+ 8	64.58	− 1	4.21	+ 9
17	13.20	+16	46.36	+ 3	42.70	+ 7	34.64	+ 7	64.08	+ 7	4.25	+ 9
18	12.80	+18	46.15	− 1	42.40	+10	34.55	+ 3	63.58	+13	4.29	+ 6
19	12.41	+17	45.93	− 5	42.10	+12	34.45	− 1	63.07	+17	4.32	+ 3
20	12.02	+12	45.71	− 8	41.81	+11	34.35	− 5	62.56	+18	4.35	− 1
21	11.65	+ 6	45.48	−10	41.52	+ 8	34.24	− 8	62.06	+16	4.37	− 5
22	11.28	− 2	45.25	−10	41.23	+ 4	34.12	− 9	61.55	+11	4.38	− 8
23	10.91	− 7	45.01	− 8	40.94	− 1	34.00	− 9	61.04	+ 4	4.39	− 8
24	10.56	−11	44.77	− 4	40.65	− 4	33.88	− 6	60.53	− 2	4.40	− 7
25	10.21	−12	44.53	− 1	40.36	− 6	33.74	− 3	60.02	− 7	4.39	− 5
26	9.87	−11	44.28	+ 3	40.08	− 7	33.60	0	59.50	−11	4.38	− 2
27	9.54	− 8	44.03	+ 6	39.80	− 7	33.46	+ 3	58.99	−12	4.37	+ 1
28	9.22	− 3	43.78	+ 7	39.52	− 5	33.31	+ 6	58.48	−11	4.35	+ 4
29	8.90	+ 1	43.52	+ 8	39.24	− 3	33.16	+ 8	57.96	− 9	4.32	+ 6
30	8.59	+ 5	43.26	+ 7	38.97	0	33.00	+ 8	57.45	− 6	4.29	+ 7
Okt. 1	8.29	+ 8	42.99	+ 6	38.70	+ 2	32.83	+ 7	56.94	− 2	4.25	+ 7
2	8.01	+10	42.72	+ 3	38.44	+ 4	32.66	+ 5	56.43	+ 3	4.20	+ 6
3	7.73	+ 9	42.45	0	38.17	+ 5	32.49	+ 2	55.92	+ 6	4.15	+ 4
4	7.46	+ 7	42.18	− 3	37.92	+ 5	32.31	− 1	55.42	+ 8	4.10	+ 1
5	7.20	+ 2	41.90	− 5	37.66	+ 3	32.12	− 4	54.91	+ 7	4.03	− 3
6	6.94	− 4	41.62	− 6	37.41	0	31.93	− 7	54.40	+ 5	3.96	− 6
7	6.70	−10	41.33	− 5	37.16	− 3	31.74	− 7	53.90	0	3.89	− 8
8	6.47	−15	41.04	− 3	36.91	− 7	31.54	− 6	53.40	− 6	3.81	− 8
9	6.25	−17	40.75	0	36.67	− 9	31.33	− 4	52.90	−11	3.72	− 6
10	6.04	−14	40.46	+ 4	36.44	−10	31.13	0	52.40	−14	3.63	− 3
11	5.83	− 9	40.17	+ 7	36.20	− 8	30.91	+ 4	51.91	−14	3.53	+ 1
12	5.64	− 1	39.87	+ 8	35.98	− 4	30.69	+ 7	51.42	−10	3.43	+ 5
13	5.46	+ 7	39.57	+ 7	35.75	0	30.47	+ 8	50.93	− 4	3.32	+ 8
14	5.29	+14	39.27	+ 4	35.53	+ 6	30.25	+ 7	50.45	+ 4	3.20	+ 9
15	5.12	+18	38.96	0	35.32	+10	30.01	+ 4	49.97	+12	3.08	+ 8
16	4.97	+17	38.65	− 4	35.11	+12	29.78	0	49.49	+17	2.95	+ 5
17	4.83	+15	38.34	− 8	34.90	+12	29.54	− 4	49.02	+19	2.82	0
18	4.70	+ 9	38.03	−10	34.70	+10	29.29	− 7	48.55	+18	2.68	− 4
19	4.58	+ 2	37.71	−10	34.50	+ 6	29.05	− 9	48.09	+14	2.53	− 7
20	4.48	− 5	37.40	− 9	34.31	+ 2	28.79	− 9	47.63	+ 8	2.38	− 8
21	4.38	− 9	37.09	− 6	34.12	− 2	28.54	− 8	47.17	+ 1	2.23	− 8
22	4.30	−11	36.77	− 2	33.94	− 5	28.28	− 5	46.73	− 5	2.06	− 6
23	4.22	−11	36.45	+ 1	33.76	− 7	28.02	− 1	46.28	− 9	1.90	− 3

sec δ, tg δ									
	87° 49′ 40″	26.383	−26.364	86° 13′ 30″	15.189	−15.156	87° 40′ 0″	24.562	−24.542
	50	26.417	−26.398	40	15.200	−15.167	10	24.591	−24.571

1919	σ Octantis 6ᵐ AR.	☾ Gl.	Dekl.	☾ Gl.	β Octantis 4ᵐ.1 AR.	☾ Gl.	Dekl.	☾ Gl.	τ Octantis 6ᵐ AR.	☾ Gl.	Dekl.	☾ Gl.
	19ʰ 32ᵐ	in ˢ 0.01	−89° 13′	in ″ 0.01	22ʰ 38ᵐ	in ˢ 0.01	−81° 48′	in ″ 0.01	23ʰ 16ᵐ	in ˢ 0.01	−87° 55′	in ″ 0.01
Sept. 16	64.33	−18	17.56	+8	4.89	−4	7.45	+4	66.06	−16	19.11	+2
17	63.00	+4	17.72	+9	4.86	−2	7.75	+7	66.02	−13	19.42	+6
18	61.65	+25	17.87	+9	4.83	0	8.04	+9	65.97	−6	19.73	+9
19	60.29	+42	18.01	+6	4.79	+2	8.34	+10	65.90	+2	20.05	+10
20	58.91	+51	18.15	+2	4.75	+4	8.63	+9	65.82	+9	20.36	+10
21	57.52	+50	18.28	−2	4.71	+5	8.92	+6	65.74	+15	20.67	+7
22	56.12	+41	18.41	−5	4.66	+5	9.21	+2	65.64	+17	20.98	+3
23	54.70	+25	18.53	−7	4.62	+4	9.50	−1	65.53	+16	21.29	0
24	53.27	+7	18.65	−7	4.57	+2	9.79	−4	65.41	+12	21.59	−3
25	51.82	−11	18.76	−6	4.51	+1	10.08	−6	65.28	+6	21.90	−5
26	50.37	−25	18.87	−4	4.46	−1	10.36	−6	65.14	−1	22.21	−6
27	48.90	−34	18.97	−1	4.40	−3	10.65	−6	64.99	−7	22.51	−6
28	47.42	−37	19.06	+1	4.34	−4	10.93	−4	64.83	−11	22.81	−5
29	45.93	−35	19.15	+4	4.28	−4	11.21	−2	64.65	−14	23.12	−3
30	44.44	−27	19.23	+6	4.21	−4	11.49	0	64.47	−15	23.41	−1
Okt. 1	42.93	−16	19.31	+7	4.14	−3	11.77	+2	64.27	−13	23.71	+1
2	41.41	−3	19.38	+6	4.07	−2	12.04	+4	64.06	−9	24.01	+3
3	39.88	+10	19.44	+5	3.99	0	12.31	+5	63.85	−4	24.30	+4
4	38.35	+20	19.50	+2	3.92	+1	12.58	+4	63.62	+3	24.59	+4
5	36.81	+24	19.55	−1	3.84	+3	12.84	+2	63.38	+9	24.89	+3
6	35.26	+22	19.60	−5	3.76	+4	13.10	0	63.13	+13	25.17	+1
7	33.71	+13	19.64	−8	3.67	+3	13.36	−4	62.87	+15	25.46	−3
8	32.16	−3	19.67	−9	3.58	+2	13.61	−7	62.60	+12	25.74	−6
9	30.60	−19	19.70	−8	3.49	0	13.87	−8	62.32	+7	26.02	−8
10	29.04	−33	19.72	−5	3.40	−2	14.11	−8	62.03	−1	26.30	−9
11	27.48	−40	19.74	−1	3.31	−3	14.36	−6	61.73	−8	26.57	−7
12	25.91	−37	19.75	+3	3.21	−4	14.60	−3	61.42	−14	26.84	−4
13	24.34	−23	19.75	+7	3.12	−4	14.84	+2	61.10	−16	27.11	0
14	22.77	−4	19.75	+9	3.02	−3	15.07	+6	60.77	−14	27.38	+5
15	21.19	+19	19.74	+9	2.92	−1	15.30	+9	60.43	−9	27.64	+9
16	19.62	+39	19.72	+7	2.81	+2	15.53	+11	60.08	−1	27.90	+11
17	18.05	+51	19.70	+4	2.71	+4	15.75	+10	59.72	+7	28.16	+11
18	16.48	+55	19.67	0	2.60	+5	15.97	+7	59.35	+14	28.41	+9
19	14.91	+47	19.64	−4	2.50	+5	16.18	+4	58.97	+17	28.66	+5
20	13.34	+34	19.60	−6	2.38	+5	16.39	0	58.58	+17	28.91	+2
21	11.77	+16	19.55	−7	2.27	+3	16.59	−3	58.19	+14	29.15	−2
22	10.21	−3	19.50	−7	2.16	+1	16.79	−5	57.78	+8	29.38	−4
23	8.66	−19	19.44	−5	2.04	−1	16.98	−6	57.37	+2	29.62	−6
sec δ, tg δ	89° 13′ 10″	73.406	−73.399		81° 48′ 10″	7.014	−6.942		87° 55′ 20″	27.582	−27.563	
	20	73.668	−73.661		20	7.016	−6.944		30	27.618	−27.600	

1919	Octantis 4 G. 6^m				ζ Octantis $6^m - 5^m$				ι Octantis $6^m - 5^m$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 41^m$	in 0.01 s	−85° 10′	in 0.01 ″	$9^h 8^m$	in 0.01 s	−85° 20′	in 0.01 ″	$12^h 46^m$	in 0.01 s	−84° 41′	in 0.01 ″
	s		″		s		″		s		″	
Okt. 23	62.91	+ 3	29.10	− 4	32.63	+ 2	26.57	+ 5	16.20	− 2	14.38	+ 6
24	62.87	+ 1	29.43	− 6	32.90	+ 4	26.51	+ 3	16.30	0	14.09	+ 7
25	62.83	− 2	29.75	− 7	33.16	+ 5	26.46	+ 1	16.41	+ 2	13.80	+ 6
26	62.78	− 4	30.08	− 7	33.43	+ 6	26.41	− 1	16.52	+ 3	13.52	+ 5
27	62.73	− 5	30.40	− 6	33.70	+ 5	26.37	− 3	16.63	+ 5	13.24	+ 3
28	62.67	− 5	30.72	− 4	33.98	+ 4	26.33	− 5	16.75	+ 5	12.96	+ 1
29	62.61	− 5	31.04	− 1	34.25	+ 3	26.31	− 5	16.88	+ 4	12.69	− 1
30	62.55	− 3	31.36	+ 1	34.52	0	26.29	− 5	17.00	+ 3	12.42	− 3
31	62.48	− 1	31.67	+ 3	34.80	− 2	26.27	− 3	17.14	+ 1	12.15	− 4
Nov. 1	62.40	+ 1	31.99	+ 4	35.07	− 4	26.26	0	17.27	− 2	11.89	− 4
2	62.32	+ 4	32.30	+ 4	35.34	− 4	26.26	+ 4	17.41	− 5	11.63	− 2
3	62.24	+ 6	32.62	+ 3	35.62	− 4	26.27	+ 7	17.56	− 6	11.37	+ 1
4	62.15	+ 7	32.93	0	35.89	− 3	26.28	+ 9	17.71	− 7	11.12	+ 4
5	62.05	+ 6	33.24	− 4	36.17	0	26.30	+ 9	17.86	− 6	10.87	+ 7
6	61.95	+ 4	33.55	− 7	36.45	+ 2	26.32	+ 8	18.02	− 3	10.62	+ 8
7	61.85	+ 1	33.85	− 8	36.72	+ 5	26.36	+ 4	18.18	0	10.38	+ 8
8	61.74	− 3	34.15	− 8	37.00	+ 6	26.39	0	18.34	+ 3	10.15	+ 6
9	61.63	− 5	34.44	− 6	37.27	+ 5	26.44	− 5	18.51	+ 6	9.91	+ 2
10	61.51	− 7	34.74	− 2	37.54	+ 4	26.49	− 8	18.68	+ 7	9.69	− 2
11	61.39	− 6	35.03	+ 3	37.82	+ 1	26.55	−10	18.85	+ 7	9.46	− 6
12	61.26	− 5	35.32	+ 7	38.09	− 2	26.61	−10	19.03	+ 5	9.24	−10
13	61.13	− 2	35.61	+10	38.36	− 5	26.69	− 7	19.21	+ 2	9.03	−11
14	61.00	+ 1	35.89	+11	38.64	− 7	26.76	− 4	19.39	− 1	8.82	−10
15	60.86	+ 3	36.17	+10	38.91	− 7	26.85	0	19.58	− 3	8.61	− 8
16	60.72	+ 5	36.45	+ 8	39.18	− 6	26.94	+ 3	19.77	− 5	8.41	− 5
17	60.57	+ 6	36.72	+ 4	39.45	− 5	27.04	+ 5	19.97	− 5	8.22	− 1
18	60.42	+ 5	36.99	+ 1	39.72	− 2	27.15	+ 6	20.17	− 5	8.03	+ 2
19	60.26	+ 3	37.25	− 3	39.99	+ 1	27.26	+ 5	20.37	− 3	7.84	+ 5
20	60.10	+ 1	37.51	− 5	40.25	+ 3	27.37	+ 4	20.57	− 1	7.66	+ 6
21	59.94	− 1	37.77	− 7	40.52	+ 5	27.49	+ 2	20.78	+ 1	7.49	+ 6
22	59.77	− 3	38.03	− 7	40.78	+ 5	27.62	− 1	20.99	+ 3	7.32	+ 5
23	59.60	− 4	38.28	− 6	41.05	+ 5	27.75	− 3	21.20	+ 4	7.15	+ 4
24	59.42	− 5	38.53	− 4	41.31	+ 4	27.89	− 5	21.41	+ 5	6.99	+ 1
25	59.24	− 5	38.77	− 2	41.57	+ 3	28.04	− 5	21.63	+ 5	6.84	− 1
26	59.06	− 4	39.01	+ 1	41.83	+ 1	28.19	− 5	21.85	+ 4	6.69	− 3
27	58.87	− 2	39.24	+ 3	42.08	− 1	28.35	− 4	22.08	+ 1	6.55	− 4
28	58.68	0	39.47	+ 4	42.34	− 3	28.52	− 1	22.30	− 1	6.42	− 4
29	58.48	+ 3	39.70	+ 5	42.59	− 4	28.69	+ 2	22.53	− 4	6.29	− 3
sec δ, tg δ	85° 10′ 30″	11.889	−11.847		85° 20′ 20″	12.306	−12.265		84° 41′ 0″	10.792	−10.746	
	40	11.896	−11.854		30	12.313	−12.273		10	10.798	−10.751	

1919	Octantis 20 G. 7ᵐ				Octantis 26 G. 6ᵐ–7ᵐ				χ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 47^m$	in ˢ 0.01	−87° 49′	in ″ 0.01	$16^h 30^m$	in ˢ 0.01	−86° 13′	in ″ 0.01	$18^h 7^m$	in ˢ 0.01	−87° 39′	in ″ 0.01
Okt. 23	4.22	−11	36.45	+1	33.76	−7	28.02	−1	46.28	−9	61.90	−3
24	4.16	−9	36.13	+4	33.59	−7	27.75	+2	45.84	−11	61.73	0
25	4.10	−5	35.81	+6	33.43	−6	27.48	+5	45.41	−11	61.55	+3
26	4.06	0	35.49	+8	33.27	−4	27.21	+7	44.98	−10	61.37	+5
27	4.03	+4	35.17	+7	33.11	−1	26.93	+8	44.56	−7	61.18	+7
28	4.01	+7	34.85	+6	32.96	+1	26.65	+7	44.14	−3	60.98	+7
29	4.00	+9	34.52	+4	32.81	+3	26.37	+6	43.73	+1	60.78	+7
30	4.00	+10	34.20	+1	32.68	+5	26.08	+3	43.33	+5	60.58	+5
31	4.02	+8	33.88	−1	32.54	+5	25.79	0	42.93	+7	60.37	+2
Nov. 1	4.04	+3	33.56	−4	32.42	+4	25.50	−3	42.54	+7	60.15	−2
2	4.08	−2	33.23	−5	32.30	+1	25.20	−6	42.16	+5	59.94	−5
3	{4.13 4.19	−9 −14	32.91 32.59	−5 −3	32.18	−2	24.91	−7	41.78	+1	59.71	−7
4	4.26	−17	32.27	−1	32.07	−6	24.61	−7	41.41	−5	59.49	−8
5	4.34	−17	31.95	+3	31.97	−9	24.31	−4	41.05	−11	59.26	−7
6	4.43	−13	31.63	+6	31.87	−11	24.00	−1	40.69	−15	59.02	−4
7	4.54	−6	31.31	+8	31.78	−10	23.70	+3	40.34	−16	58.78	−1
8	4.65	+3	31.00	+8	31.70	−7	23.39	+6	40.00	−13	58.53	+4
9	4.78	+11	30.68	+6	31.62	−2	23.08	+8	39.67	−8	58.29	+7
10	4.92	+17	30.37	+2	31.55	+3	22.77	+8	39.35	0	58.03	+9
11	5.07	+19	30.05	−2	31.48	+8	22.46	+6	39.04	+8	57.77	+8
12	5.23	+17	29.74	−6	31.42	+11	22.14	+2	38.73	+15	57.51	+6
13	5.41	+12	29.43	−9	31.37	+12	21.83	−2	38.43	+19	57.25	+2
14	5.59	+5	29.12	−11	31.33	+11	21.51	−6	38.14	+20	56.97	−2
15	5.79	−2	28.81	−10	31.29	+8	21.19	−9	37.86	+17	56.70	−6
16	6.00	−7	28.50	−8	31.26	+4	20.87	−10	37.59	+11	56.42	−8
17	6.21	−11	28.20	−4	31.24	0	20.55	−9	37.33	+5	56.14	−8
18	6.44	−11	27.90	−1	31.22	−4	20.22	−6	37.08	−2	55.85	−7
19	6.68	−9	27.60	+3	31.21	−6	19.90	−3	36.84	−7	55.56	−5
20	6.93	−6	27.30	+5	31.20	−7	19.57	+1	36.60	−10	55.27	−1
21	7.19	−1	27.01	+7	31.21	−6	19.25	+4	36.38	−11	54.97	+2
22	7.46	+3	26.72	+7	31.22	−4	18.93	+6	36.17	−10	54.68	+4
23	7.74	+7	26.43	+6	31.23	−2	18.61	+7	35.96	−7	54.38	+6
24	8.04	+9	26.14	+5	31.25	+1	18.28	+8	35.77	−4	54.07	+7
25	8.34	+10	25.86	+2	31.28	+3	17.96	+6	35.58	0	53.77	+7
26	8.65	+9	25.58	−1	31.32	+5	17.64	+4	35.40	+4	53.46	+6
27	8.98	+6	25.30	−3	31.36	+5	17.32	+1	35.23	+7	53.15	+3
28	9.31	0	25.03	−5	31.41	+5	16.99	−2	35.08	+8	52.84	0
29	9.65	−6	24.76	−5	31.46 31.52	+2 −1	16.67 16.35	−5 −6	34.93	+6	52.52	−4
sec δ, tg δ	87° 49′ 30″ 40	26.349 26.383	−26.330 −26.364		86° 13′ 20″ 30	15.178 15.189	−15.145 −15.156		87° 39′ 50″ 60	24.533 24.562	−24.513 −24.542	

1919	σ Octantis 6ᵐ				β Octantis 4ᵐ.1				τ Octantis 6ᵐ			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$19^h 31^m$	in s 0.01	−89° 13′	in ″ 0.01	$22^h 37^m$	in s 0.01	−81° 48′	in ″ 0.01	$23^h 16^m$	in s 0.01	−87° 55′	in ″ 0.01
Okt. 23	68.66	−19	19.44	−5	62.04	−1	16.98	−6	57.37	+2	29.62	−6
24	67.11	−30	19.37	−2	61.92	−2	17.17	−6	56.95	−4	29.84	−6
25	65.57	−35	19.30	0	61.81	−3	17.36	−5	56.52	−10	30.07	−5
26	64.03	−35	19.22	+3	61.68	−4	17.54	−3	56.09	−13	30.29	−4
27	62.50	−29	19.14	+5	61.56	−4	17.72	−1	55.64	−15	30.50	−2
28	60.98	−20	19.05	+6	61.43	−3	17.89	+2	55.18	−14	30.71	0
29	59.46	−8	18.95	+6	61.31	−2	18.06	+3	54.72	−11	30.92	+2
30	57.96	+5	18.85	+5	61.18	−1	18.22	+4	54.25	−6	31.12	+4
31	56.46	+16	18.74	+3	61.05	+1	18.37	+4	53.77	0	31.31	+4
Nov. 1	54.97	+22	18.62	0	60.92	+2	18.52	+3	53.29	+6	31.50	+3
2	53.49	+22	18.50	−4	60.79	+3	18.67	0	52.80	+12	31.69	+1
3	52.02	+14	18.37	−7	60.65	+3	18.81	−3	52.30	+14	31.87	−2
4	50.56	+1	18.24	−9	60.52	+2	18.94	−6	51.80	+13	32.04	−5
5	49.11	−16	18.10	−9	60.39	+1	19.07	−9	51.29	+9	32.21	−8
6	47.68	−31	17.96	−7	60.25	−1	19.20	−9	50.77	+2	32.38	−9
7	46.26	−41	17.81	−3	60.11	−3	19.32	−8	50.24	−5	32.54	−8
8	44.86	−42	17.65	+1	59.97	−4	19.43	−5	49.71	−12	32.70	−6
9	43.47	−32	17.49	+5	59.84	−4	19.53	−1	49.18	−16	32.84	−2
10	42.10	−14	17.32	+8	59.70	−3	19.63	+4	48.64	−15	32.99	+3
11	40.75	+9	17.14	+9	59.55	−2	19.73	+8	48.09	−12	33.12	+7
12	39.41	+31	16.96	+8	59.41	+1	19.82	+9	47.54	−4	33.25	+10
13	38.09	+48	16.78	+6	59.27	+3	19.90	+11	46.99	+4	33.38	+11
14	36.79	+56	16.59	+2	59.12	+5	19.98	+9	46.43	+11	33.50	+10
15	35.51	+54	16.39	−2	58.98	+6	20.05	+6	45.86	+16	33.61	+7
16	34.24	+43	16.19	−5	58.83	+5	20.11	+2	45.29	+18	33.72	+4
17	32.99	+25	15.99	−7	58.69	+4	20.17	−1	44.71	+15	33.82	0
18	31.76	+6	15.78	−7	58.54	+2	20.22	−4	44.14	+11	33.91	−3
19	30.55	−11	15.56	−6	58.40	0	20.26	−6	43.55	+5	34.00	−5
20	29.36	−24	15.34	−3	58.25	−1	20.30	−6	42.97	−2	34.08	−6
21	28.19	−32	15.11	0	58.11	−3	20.33	−5	42.38	−8	34.15	−5
22	27.04	−34	14.88	+2	57.96	−4	20.36	−3	41.79	−12	34.22	−4
23	25.92	−29	14.64	+4	57.82	−4	20.38	−1	41.20	−14	34.29	−2
24	24.82	−22	14.40	+6	57.67	−4	20.40	+1	40.61	−14	34.34	0
25	23.74	−10	14.15	+7	57.52	−3	20.41	+3	40.01	−12	34.39	+2
26	22.68	+2	13.90	+6	57.37	−1	20.41	+4	39.41	−8	34.44	+4
27	21.65	+13	13.64	+4	57.22	0	20.41	+4	38.81	−2	34.48	+4
28	20.64	+21	13.38	+1	57.08	+2	20.40	+4	38.20	+4	34.51	+4
29	19.66	+23	13.12	−2	56.93	+3	20.38	+1	37.60	+9	34.54	+2
sec δ, tg δ	89° 13′ 10″	73.406	−73.399		81° 48′ 10″	7.014	−6.942		87° 55′ 30″	27.618	−27.600	
	20	73.668	−73.661		20	7.016	−6.944		40	27.655	−27.637	

1919	Octantis 4 G. 6^m				ζ Octantis $6^m - 5^m$				ι Octantis $6^m - 5^m$			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$1^h 41^m$ s	in s 0.01	$-85°10'$ "	in " 0.01	$9^h 8^m$ s	in s 0.01	$-85°20'$ "	in " 0.01	$12^h 46^m$ s	in s 0.01	$-84°41'$ "	in " 0.01
Nov. 29	58.48	+3	39.70	+5	42.59	−4	28.69	+2	22.53	−4	6.29	−3
30	58.28	+5	39.92	+3	42.83	−4	28.87	+6	22.76	−6	6.16	0
Dez. 1	58.08	+6	40.13	+1	43.08	−3	29.06	+8	22.99	−7	6.04	+3
2	57.88	+7	40.34	−3	43.32	−1	29.25	+10	23.23	−7	5.93	+6
3	57.67	+5	40.55	−6	43.56	+2	29.44	+9	23.46	−5	5.82	+8
4	57.46	+2	40.75	−8	43.80	+4	29.64	+6	23.70	−2	5.72	+9
5	57.24	−1	40.94	−9	44.03	+6	29.85	+2	23.94	+1	5.63	+8
6	57.02	−4	41.13	−8	44.26	+6	30.06	−2	24.18	+4	5.54	+5
7	56.80	−6	41.31	−4	44.49	+5	30.28	−6	24.43	+6	5.46	0
8	56.58	−7	41.49	0	44.72	+2	30.51	−9	24.68	+7	5.39	−4
9	56.36	−6	41.66	+5	44.94	−1	30.74	−10	24.92	+6	5.32	−8
10	56.13	−3	41.82	+9	45.16	−4	30.97	−8	25.17	+3	5.26	−10
11	55.90	−1	41.99	+11	45.38	−6	31.21	−6	25.42	0	5.20	−11
12	55.67	+2	42.14	+11	45.59	−7	31.46	−2	25.67	−2	5.15	−9
13	55.43	+4	42.29	+9	45.80	−7	31.71	+1	25.92	−4	5.10	−6
14	55.19	+5	42.44	+6	46.01	−5	31.96	+4	26.18	−5	5.06	−3
15	54.95	+5	42.58	+2	46.22	−3	32.22	+5	26.43	−5	5.03	+1
16	54.71	+4	42.71	−1	46.42	−1	32.49	+5	26.69	−4	5.01	+4
17	54.46	+2	42.84	−4	46.61	+2	32.76	+4	26.95	−2	4.99	+5
18	54.21	0	42.96	−6	46.81	+4	33.03	+2	27.20	+1	4.98	+6
19	53.96	−2	43.08	−6	46.99	+5	33.31	0	27.46	+3	4.97	+5
20	53.71	−4	43.19	−6	47.18	+5	33.60	−2	27.72	+4	4.97	+4
21	53.45	−5	43.29	−5	47.36	+5	33.88	−4	27.98	+5	4.98	+2
22	53.20	−5	43.39	−2	47.54	+3	34.18	−5	28.24	+5	4.99	0
23	52.94	−4	43.48	0	47.71	+2	34.47	−6	28.50	+4	5.01	−3
24	52.68	−3	43.57	+3	47.88	−1	34.77	−5	28.76	+2	5.03	−4
25	52.42	−1	43.65	+4	48.05	−3	35.08	−2	29.02	0	5.06	−5
26	52.16	+2	43.73	+5	48.21	−4	35.39	+1	29.28	−3	5.10	−4
27	51.89	+4	43.80	+4	48.37	−4	35.70	+4	29.54	−5	5.14	−2
28	51.63	+6	43.86	+2	48.52	−4	36.02	+7	29.81	−7	5.19	+1
29	51.37	+7	43.91	−1	48.67	−2	36.34	+9	30.07	−7	5.25	+5
30	51.10	+6	43.96	−5	48.81	+1	36.66	+10	30.33	−6	5.31	+8
31	50.83	+3	44.01	−8	48.95	+3	36.99	+8	30.60	−3	5.38	+10
32	50.56	0	44.04	−9	49.09	+5	37.32	+4	30.86	0	5.46	+9
sec δ, tg δ	85°10'40"	11.896	−11.854		85°20'30"	12.313	−12.273		84°41' 0"	10.792	−10.746	
	50	11.902	−11.860		40	12.321	−12.280		19	10.798	−10.751	

1919	Octantis 20 G. 7^m				Octantis 26 G. 6^m-7^m				χ Octantis 6^m			
	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.	AR.	☾ Gl.	Dekl.	☾ Gl.
	$14^h 47^m$	in ^{s} 0.01	−87° 49′	in ″ 0.01	$16^h 30^m$	in ^{s} 0.01	−86° 13′	in ″ 0.01	$18^h 7^m$	in ^{s} 0.01	−87° 39′	in ″ 0.01
Nov. 29	9.65	− 6	24.76	− 5	{31.46 31.52	+ 2 − 1	16.67 16.35	− 5 − 6	34.93	+ 6	52.52	− 4
30	10.01	−12	24.49	− 4	31.59	− 5	16.03	− 7	34.80	+ 2	52.21	− 6
Dez. 1	10.37	−17	24.23	− 2	31.67	− 8	15.71	− 5	34.67	− 3	51.89	− 8
2	10.74	−18	23.97	+ 2	31.75	−11	15.39	− 2	34.56	− 9	51.57	− 8
3	11.12	−16	23.71	+ 5	31.83	−11	15.07	+ 1	34.45	−14	51.25	− 6
4	11.52	−10	23.46	+ 8	31.93	− 9	14.76	+ 5	34.35	−17	50.92	− 2
5	11.92	− 2	23.21	+ 9	32.03	− 5	14.44	+ 8	34.27	−16	50.60	+ 2
6	12.33	+ 6	22.97	+ 7	32.14	0	14.13	+ 8	34.19	−12	50.27	+ 6
7	12.75	+14	22.73	+ 4	32.26	+ 5	13.81	+ 7	34.13	− 5	49.94	+ 8
8	13.18	+18	22.49	0	32.38	+10	13.50	+ 4	34.08	+ 4	49.61	+ 9
9	13.61	+17	22.26	− 5	32.51	+12	13.19	0	34.04	+12	49.28	+ 7
10	14.06	+14	22.03	− 8	32.64	+12	12.89	− 5	34.01	+17	48.95	+ 4
11	14.51	+ 8	21.81	−10	32.78	+10	12.58	− 8	33.99	+20	48.61	0
12	14.97	+ 1	21.59	−11	32.93	+ 6	12.28	−10	33.98	+18	48.28	− 4
13	15.44	− 4	21.38	− 9	33.08	+ 2	11.98	− 9	33.98	+14	47.94	− 7
14	15.91	− 9	21.17	− 6	33.24	− 2	11.68	− 7	33.99	+ 8	47.61	− 8
15	16.40	−11	20.96	− 2	33.40	− 5	11.38	− 4	34.02	+ 1	47.27	− 8
16	16.90	−10	20.76	+ 1	33.57	− 6	11.09	− 1	34.05	− 4	46.93	− 6
17	17.40	− 7	20.57	+ 4	33.75	− 6	10.79	+ 3	34.10	− 8	46.59	− 2
18	17.91	− 3	20.38	+ 6	33.93	− 4	10.51	+ 5	34.15	−10	46.26	+ 1
19	18.42	+ 2	20.19	+ 7	34.12	− 2	10.22	+ 7	34.22	−10	45.92	+ 4
20	18.95	+ 6	20.02	+ 6	34.32	0	9.94	+ 7	34.30	− 7	45.59	+ 6
21	19.48	+ 9	19.84	+ 5	34.52	+ 3	9.66	+ 7	34.39	− 4	45.25	+ 7
22	20.01	+11	19.67	+ 3	34.72	+ 5	9.38	+ 5	34.48	0	44.92	+ 7
23	20.55	+10	19.51	0	34.94	+ 6	9.10	+ 2	{34.59 34.71	+ 4 + 7	44.58 44.25	+ 6 + 4
24	21.10	+ 8	19.35	− 3	35.16	+ 5	8.83	− 1	34.83	+ 8	43.91	+ 1
25	21.66	+ 3	19.20	− 5	35.38	+ 4	8.56	− 4	34.97	+ 8	43.58	− 2
26	22.22	− 3	19.05	− 5	35.61	+ 1	8.30	− 6	35.12	+ 5	43.25	− 5
27	22.79	− 9	18.91	− 5	35.85	− 3	8.04	− 7	35.28	0	42.92	− 8
28	23.36	−15	18.77	− 3	36.09	− 7	7.78	− 6	35.45	− 6	42.58	− 8
29	23.94	−18	18.64	0	36.33	−10	7.53	− 4	35.63	−12	42.25	− 7
30	24.53	−17	18.52	+ 4	36.58	−11	7.28	0	35.82	−16	41.93	− 4
31	25.11	−13	18.40	+ 7	36.84	−11	7.03	+ 4	36.02	−18	41.60	0
32	25.71	− 6	18.28	+ 9	37.10	− 7	6.79	+ 7	36.23	−15	41.27	+ 4
sec δ, tg δ	87° 49′ 20″	26.316	−26.297		86° 13′ 10″	15.166	−15.133		87° 39′ 40″	24.504	−24.483	
	30	26.349	−26.330		20	15.178	−15.145		50	24.533	−24.513	

1919	σ Octantis 6^m AR.	☾ Gl.	Dekl.	☾ Gl.	β Octantis 4^m.1 AR.	☾ Gl.	Dekl.	☾ Gl.	τ Octantis 6^m AR.	☾ Gl.	Dekl.	☾ Gl.
	19^h 31^m s	in s 0.01	−89° 13′ ″	in ″ 0.01	22^h 37^m s	in s 0.01	−81° 48′ ″	in ″ 0.01	23^h 16^m s	in s 0.01	−87° 55′ ″	in ″ 0.01
Nov. 29	19.66	+23	13.12	−2	56.93	+3	20.38	+1	37.60	+9	34.54	+2
30	18.70	+17	12.85	−6	56.79	+3	20.36	−2	36.99	+13	34.56	−1
Dez. 1	17.76	+5	12.58	−8	56.64	+3	20.33	−5	36.38	+13	34.57	−4
2	16.85	−11	12.30	−9	56.50	+1	20.29	−8	35.78	+11	34.57	−7
3	15.97	−28	12.02	−8	56.35	0	20.25	−10	35.17	+5	34.57	−9
4	15.11	−41	11.73	−5	56.21	−2	20.20	−10	34.55	−3	34.57	−10
5	14.28	−46	11.44	−1	56.06	−4	20.14	−7	33.94	−9	34.55	−8
6	13.47	−41	11.15	+3	55.92	−5	20.08	−3	33.33	−15	34.53	−5
7	12.69	−26	10.86	+7	55.78	−4	20.01	+1	32.72	−16	34.50	0
8	11.95	−4	10.56	+9	55.63	−3	19.94	+6	32.11	−14	34.47	+5
9	11.23	+20	10.26	+9	55.49	0	19.85	+9	31.50	−8	34.43	+9
10	10.53	+41	9.95	+7	55.35	+2	19.77	+11	30.89	+1	34.39	+11
11	9.87	+53	9.64	+3	55.21	+4	19.67	+10	30.29	+8	34.33	+11
12	9.23	+56	9.33	−1	55.07	+5	19.57	+7	29.68	+15	34.27	+9
13	8.62	+49	9.01	−4	54.94	+5	19.47	+4	29.08	+18	34.21	+5
14	8.04	+34	8.69	−6	54.80	+5	19.36	0	28.47	+18	34.14	+2
15	7.49	+15	8.37	−7	54.66	+3	19.24	−3	27.87	+13	34.06	−2
16	6.96	−3	8.05	−6	54.53	+1	19.12	−5	27.27	+7	33.97	−4
17	6.47	−18	7.72	−4	54.40	−1	18.99	−5	26.67	+1	33.88	−5
18	6.01	−28	7.40	−1	54.27	−2	18.86	−5	26.08	−5	33.78	−5
19	5.58	−32	7.07	+2	54.13	−3	18.71	−3	25.48	−10	33.67	−4
20	5.18	−30	6.73	+4	54.00	−4	18.57	−1	24.90	−13	33.56	−3
21	4.81	−23	6.40	+6	53.88	−4	18.41	+1	24.31	−14	33.44	0
22	4.47	−13	6.06	+7	53.75	−3	18.25	+3	23.73	−13	33.31	+2
23	4.16	−1	5.72	+6	53.62	−2	18.09	+4	23.15	−9	33.18	+4
24	3.88	+11	5.38	+5	53.50	0	17.92	+5	22.58	−4	33.05	+5
25	3.63	+20	5.03	+2	53.37	+1	17.74	+4	22.01	+2	32.91	+5
26	3.41	+25	4.69	−1	53.25	+3	17.56	+3	21.44	+8	32.76	+3
27	3.22	+22	4.34	−4	53.13	+3	17.37	0	20.88	+12	32.61	+1
28	3.07	+12	3.99	−7	53.01	+3	17.18	−3	20.32	+14	32.45	−2
29	2.94	−3	3.65	−9	52.89	+2	16.98	−7	19.76	+12	32.28	−6
30	2.85	−21	3.30	−9	52.78	0	16.78	−9	19.21	+8	32.11	−9
31	2.78	−38	2.95	−7	52.66	−2	16.57	−10	18.67	0	31.93	−10
32	2.74	−47	2.60	−3	52.55	−4	16.36	−9	18.13	−7	31.74	−9
sec δ, tg δ	89° 13′ 0″	73.146	−73.139		81° 48′ 10″	7.014	−6.942		87° 55′ 30″	27.618	−27.600	
	10	73.406	−73.399		20	7.016	−6.944		40	27.655	−27.637	

Formeln

zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34215 + 0.00031\,T)\sin\Omega + 0.00415\sin 2\Omega - 0.02526\sin 2L_\odot + 0.00251\sin M_\odot - 0.00099\sin(2L_\odot + M_\odot) + 0.00042\sin(2L_\odot - M_\odot) + 0.00025\sin(2L_\odot - \Omega)$$

$$A' = -0.00405\sin 2L_☾ + 0.00135\sin M_☾ - 0.00068\sin(2L_☾ - \Omega) - 0.00052\sin(2L_☾ + M_☾) + 0.00030\sin(2L_☾ - 2L_\odot - M_☾) + 0.00023\sin(2L_☾ - M_☾) + 0.00012\sin(2L_☾ - 2L_\odot)$$

$$B = -(9''.210 + 0''.001\,T)\cos\Omega + 0''.090\cos 2\Omega - 0''.551\cos 2L_\odot - 0''.022\cos(2L_\odot + M_\odot) + 0''.009\cos(2L_\odot - M_\odot) + 0''.007\cos(2L_\odot - \Omega)$$

$$B' = -0''.089\cos 2L_☾ - 0''.018\cos(2L_☾ - \Omega) - 0''.011\cos(2L_☾ + M_☾) + 0''.005\cos(2L_☾ - M_☾)$$

$$C = -20''.47\cos\odot\cos\varepsilon$$

$$D = -20''.47\sin\odot$$

$$E = -(0^s.0029 - 0^s.0004\,T)\sin\Omega$$

T Zeit seit 1900.0 in Einheiten von 100 tropischen Jahren
t Zeit seit Beginn des annus fictus, in Bruchteilen des tropischen Jahres

$a = m + {}^1/_{15}\, n \sin\alpha \operatorname{tg}\delta$	$a' = n\cos\alpha$
$b = {}^1/_{15}\cos\alpha \operatorname{tg}\delta$	$b' = -\sin\alpha$
$c = {}^1/_{15}\cos\alpha \sec\delta$	$c' = \operatorname{tg}\varepsilon\cos\delta - \sin\alpha\sin\delta$
$d = {}^1/_{15}\sin\alpha \sec\delta$	$d' = \cos\alpha\sin\delta$

$$\alpha_{app.} = \alpha_{1919.0} + t\,\mu_\alpha + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$

$$\delta_{app.} = \delta_{1919.0} + t\,\mu_\delta + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$$

μ_α, μ_δ jährliche Eigenbewegung in Rektaszension, bez. Deklination

Setzt man:

$f = mA + E$	$f' = mA'$	$i = C\operatorname{tg}\varepsilon$
$g\sin G = B$	$g'\sin G' = B'$	$h\sin H = C$
$g\cos G = nA$	$g'\cos G' = nA'$	$h\cos H = D$,

so wird:

$$\alpha_{app.} = \alpha_{1919.0} + t\,\mu_\alpha + f + {}^1/_{15}\, g\sin(G+\alpha)\operatorname{tg}\delta + {}^1/_{15}\, h\sin(H+\alpha)\sec\delta + [f' + {}^1/_{15}\, g'\sin(G'+\alpha)\operatorname{tg}\delta]$$

$$\delta_{app.} = \delta_{1919.0} + t\,\mu_\delta + g\cos(G+\alpha) + h\cos(H+\alpha)\sin\delta + i\cos\delta + [g'\cos(G'+\alpha)]$$

Reduktionsgrößen 1919

für 12^h Sternzeit Greenwich

Mittlere Zeit Greenwich	t	log A	log B	log C	log D	E
1919						
Jan. 0.7	−0.0005	9.52531	0.52582	0.50256_n	1.30479	+0.0026
10.7	+0.0268	9.56813	0.52401	0.80604_n	1.28434	26
20.7	0.0541	9.60487	0.51481	0.97359_n	1.24832	26
30.6	0.0814	9.63594	0.50079	1.08364_n	1.19402	26
Febr. 9.6	0.1087	9.66191	0.48458	1.15996_n	1.11628	26
19.6	0.1360	9.68358	0.46953	1.21294_n	1.00488	+0.0026
März 1.6	0.1633	9.70184	0.45939	1.24783_n	0.83626	26
11.5	0.1906	9.71768	0.45667	1.26757_n	0.53314	26
21.5	0.2179	9.73210	0.46374	1.27368_n	9.07188_n	25
31.5	0.2452	9.74603	0.48015	1.26675_n	0.55919_n	25
April 10.4	0.2725	9.76027	0.50420	1.24662_n	0.84547_n	+0.0025
20.4	0.2998	9.77539	0.53326	1.21222_n	1.00706_n	25
30.4	0.3271	9.79170	0.56419	1.16122_n	1.11444_n	25
Mai 10.4	0.3544	9.80925	0.59417	1.08944_n	1.18980_n	25
20.3	0.3817	9.82788	0.62128	0.98869_n	1.24304_n	25
30.3	0.4090	9.84719	0.64385	0.84111_n	1.27928_n	+0.0025
Juni 9.3	0.4363	9.86677	0.66124	0.59616_n	1.30131_n	25
19.3	0.4636	9.88610	0.67293	9.93095_n	1.31067_n	25
29.2	0.4909	9.90471	0.67897	0.35392	1.30796_n	24
Juli 9.2	0.5182	9.92221	0.67952	0.72485	1.29305_n	24
19.2	0.5456	9.93829	0.67560	0.91440	1.26505_n	+0.0024
29.1	0.5729	9.95279	0.66792	1.03715	1.22207_n	24
Aug. 8.1	0.6002	9.96561	0.65820	1.12317	1.16059_n	24
18.1	0.6275	9.97681	0.64807	1.18478	1.07426_n	23
28.1	0.6548	9.98654	0.63949	1.22806	0.94998_n	23
Sept. 7.0	0.6821	9.99507	0.63438	1.25619	0.75542_n	+0.0023
17.0	0.7094	0.00278	0.63428	1.27093	0.36135_n	23
27.0	0.7367	0.01004	0.64038	1.27295	0.07298	23
Okt. 7.0	0.7640	0.01730	0.65254	1.26216	0.66736	23
16.9	0.7913	0.02499	0.66987	1.23771	0.90293	23
26.9	0.8186	0.03339	0.69082	1.19764	1.04630	+0.0023
Nov. 5.9	0.8459	0.04275	0.71324	1.13849	1.14414	23
15.8	0.8732	0.05311	0.73504	1.05385	1.21307	23
25.8	0.9005	0.06438	0.75450	0.93064	1.26102	22
Dez. 5.8	0.9278	0.07632	0.77019	0.73679	1.29199	22
15.8	0.9551	0.08858	0.78111	0.34380	1.30812	+0.0022
25.7	0.9824	0.10078	0.78696	0.04805_n	1.31035	22
35.7	1.0097	0.11252	0.78789	0.64404_n	1.29883	22

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i	i
1919		″		h m		h m		″
Jan. 0.5	−0.0011	+1.030	0.8749	1 46.3	1.3102	23 25.0	0.1297$_n$	−1.348
1.5	+0.0016	1.041	0.8786	1 45.4	1.3100	23 21.2	0.1735$_n$	1.491
2.5	0.0043	1.052	0.8822	1 44.5	1.3097	23 17.5	0.2130$_n$	1.633
3.5	0.0071	1.063	0.8858	1 43.6	1.3095	23 13.7	0.2492$_n$	1.775
4.5	0.0098	1.074	0.8894	1 42.7	1.3092	23 9.9	0.2824$_n$	1.916
5.5	0.0125	1.084	0.8929	1 41.8	1.3089	23 6.2	0.3130$_n$	2.056
6.5	0.0153	+1.095	0.8964	1 40.8	1.3086	23 2.4	0.3416$_n$	−2.196
7.5	0.0180	1.106	0.8998	1 39.9	1.3083	22 58.6	0.3683$_n$	2.335
8.5	0.0208	1.116	0.9031	1 39.0	1.3079	22 54.8	0.3934$_n$	2.474
9.5	0.0235	1.127	0.9064	1 38.1	1.3075	22 51.0	0.4168$_n$	2.611
10.5	0.0262	1.137	0.9096	1 37.2	1.3072	22 47.2	0.4390$_n$	2.748
11.5	0.0290	1.148	0.9128	1 36.3	1.3068	22 43.4	0.4600$_n$	2.884
12.5	0.0317	+1.158	0.9160	1 35.4	1.3063	22 39.6	0.4799$_n$	−3.019
13.5	0.0345	1.168	0.9191	1 34.5	1.3059	22 35.7	0.4987$_n$	3.153
14.5	0.0372	1.179	0.9222	1 33.7	1.3054	22 31.9	0.5167$_n$	3.286
15.5	0.0399	1.189	0.9252	1 32.8	1.3050	22 28.1	0.5338$_n$	3.418
16.5	0.0427	1.199	0.9281	1 31.9	1.3045	22 24.2	0.5501$_n$	3.549
17.5	0.0454	1.209	0.9310	1 31.0	1.3040	22 20.3	0.5656$_n$	3.678
18.5	0.0481	+1.219	0.9339	1 30.2	1.3035	22 16.5	0.5806$_n$	−3.807
19.5	0.0509	1.229	0.9367	1 29.3	1.3029	22 12.6	0.5948$_n$	3.934
20.5	0.0536	1.238	0.9395	1 28.4	1.3024	22 8.7	0.6086$_n$	4.061
21.5	0.0564	1.248	0.9422	1 27.6	1.3018	22 4.8	0.6218$_n$	4.186
22.5	0.0591	1.257	0.9448	1 26.8	1.3013	22 0.9	0.6344$_n$	4.309
23.5	0.0618	1.267	0.9475	1 26.0	1.3007	21 57.0	0.6465$_n$	4.431
24.5	0.0646	+1.276	0.9501	1 25.1	1.3001	21 53.1	0.6581$_n$	−4.551
25.5	0.0673	1.286	0.9526	1 24.3	1.2995	21 49.2	0.6694$_n$	4.671
26.5	0.0700	1.295	0.9552	1 23.5	1.2989	21 45.2	0.6802$_n$	4.788
27.5	0.0728	1.304	0.9577	1 22.7	1.2983	21 41.3	0.6905$_n$	4.903
28.5	0.0755	1.313	0.9601	1 21.9	1.2976	21 37.3	0.7005$_n$	5.018
29.5	0.0783	1.322	0.9625	1 21.2	1.2970	21 33.4	0.7103$_n$	5.132
30.5	0.0810	+1.330	0.9648	1 20.4	1.2964	21 29.4	0.7196$_n$	
31.5	0.0837	1.339	0.9671	1 19.7	1.2957	21 25.4	0.7286$_n$	
Febr. 1.5	0.0865	1.348	0.9694	1 18.9	1.2951	21 21.4	0.7373$_n$	
2.5	0.0892	1.356	0.9716	1 18.2	1.2944	21 17.4	0.7456$_n$	
3.5	0.0919	1.364	0.9739	1 17.5	1.2938	21 13.3	0.7537$_n$	
4.5	0.0947	1.373	0.9760	1 16.8	1.2931	21 9.3	0.7615$_n$	
5.5	0.0974	+1.381	0.9782	1 16.1	1.2924	21 5.2	0.7690$_n$	
6.5	0.1002	1.389	0.9803	1 15.5	1.2918	21 1.2	0.7762$_n$	
7.5	0.1029	1.397	0.9823	1 14.8	1.2911	20 57.1	0.7832$_n$	
8.5	0.1056	1.405	0.9843	1 14.1	1.2905	20 53.0	0.7900$_n$	
9.5	0.1084	1.413	0.9863	1 13.5	1.2898	20 48.9	0.7965$_n$	
10.5	0.1111	1.420	0.9883	1 12.8	1.2891	20 44.8	0.8028$_n$	

Mittl. Zeit Greenwich	f′	g′	G′	Allgemeine Präzession seit 1919.0	Δψ	Δψ′	Wahre Schiefe	Δε	Δε′
1919	in 0.001	in 0.01				in 0.01	23° 26′		in 0.01
Jan. 0.5	− 4	+ 8	7.1	−0.06	+16.90	− 6	55.92	−3.35	− 8
1.5	+ 1	7	5.6	+0.08	16.94	+ 2	55.93	3.36	− 7
2.5	+ 5	6	3.8	0.22	16.98	+ 9	55.95	3.36	− 5
3.5	+ 8	6	1.3	0.36	17.02	+14	55.98	3.36	− 2
4.5	+ 9	6	22.8	0.49	17.06	+15	56.02	3.36	+ 2
5.5	+ 7	7	20.6	0.63	17.10	+12	56.05	3.36	+ 6
6.5	+ 3	+ 8	18.9	+0.77	+17.14	+ 5	56.08	−3.35	+ 8
7.5	− 3	9	17.2	0.91	17.17	− 4	56.09	3.35	+ 9
8.5	− 8	9	15.6	1.04	17.21	−13	56.07	3.35	+ 7
9.5	−12	9	13.8	1.18	17.24	−19	56.04	3.35	+ 4
10.5	−13	8	11.8	1.32	17.28	−21	56.00	3.34	0
11.5	−11	8	9.7	1.46	17.31	−17	55.96	3.34	− 5
12.5	− 6	+ 9	7.6	+1.59	+17.34	− 9	55.93	−3.33	− 8
13.5	+ 1	9	5.7	1.73	17.37	+ 2	55.92	3.33	− 9
14.5	+ 8	10	4.0	1.87	17.40	+12	55.93	3.32	− 8
15.5	+13	10	2.2	2.01	17.43	+21	55.97	3.31	− 6
16.5	+16	10	0.6	2.14	17.46	+25	56.02	3.31	− 2
17.5	+15	10	23.1	2.28	17.48	+25	56.06	3.30	+ 2
18.5	+12	+10	21.6	+2.42	+17.51	+20	56.10	−3.29	+ 6
19.5	+ 8	9	20.2	2.56	17.53	+13	56.13	3.28	+ 8
20.5	+ 2	8	18.7	2.70	17.55	+ 4	56.14	3.27	+ 8
21.5	− 3	8	17.0	2.83	17.57	− 5	56.14	3.26	+ 7
22.5	− 7	7	15.0	2.97	17.59	−12	56.13	3.26	+ 5
23.5	−11	7	13.1	3.11	17.61	−17	56.11	3.25	+ 2
24.5	−12	+ 8	11.4	+3.25	+17.62	−19	56.08	−3.24	− 1
25.5	−11	8	10.1	3.38	17.64	−19	56.06	3.23	− 4
26.5	− 9	9	8.8	3.52	17.65	−15	56.05	3.21	− 7
27.5	− 5	9	7.6	3.66	17.66	− 9	56.04	3.20	− 8
28.5	− 1	8	6.2	3.80	17.67	− 1	56.05	3.19	− 8
29.5	+ 4	7	4.5	3.93	17.68	+ 6	56.08	3.18	− 6
30.5	+ 7	+ 6	2.2	+4.07	+17.68	+12	56.12	−3.17	− 3
31.5	+ 9	6	23.7	4.21	17.69	+15	56.17	3.16	0
Febr. 1.5	+ 8	7	21.3	4.35	17.69	+13	56.22	3.15	+ 4
2.5	+ 5	8	19.5	4.48	17.69	+ 8	56.26	3.14	+ 7
3.5	0	9	18.0	4.62	17.69	0	56.28	3.12	+ 9
4.5	− 6	9	16.4	4.76	17.69	− 9	56.28	3.11	+ 8
5.5	−10	+ 8	14.6	+4.90	+17.68	−16	56.27	−3.10	+ 5
6.5	−12	8	12.6	5.03	17.68	−19	56.23	3.09	+ 1
7.5	−11	8	10.3	5.17	17.67	−17	56.20	3.08	− 3
8.5	− 7	8	8.2	5.31	17.66	−11	56.17	3.07	− 7
9.5	− 1	9	6.2	5.45	17.65	− 1	56.16	3.05	− 9
10.5	+ 6	10	4.4	5.59	17.64	+10	56.18	3.04	− 9

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i
1919							
Febr. 10.5	0.1111	+1.420	0.9883	$1^h\ 12^m.8$	1.2891	$20^h\ 44^m.8$	0.8028_n
11.5	0.1139	1.428	0.9903	1 12.2	1.2885	20 40.7	0.8088_n
12.5	0.1166	1.435	0.9922	1 11.6	1.2878	20 36.6	0.8146_n
13.5	0.1193	1.443	0.9941	1 11.0	1.2872	20 32.5	0.8203_n
14.5	0.1221	1.450	0.9959	1 10.5	1.2866	20 28.3	0.8257_n
15.5	0.1248	1.457	0.9977	1 9.9	1.2859	20 24.2	0.8308_n
16.5	0.1275	+1.464	0.9995	1 9.4	1.2853	20 20.0	0.8359_n
17.5	0.1303	1.471	1.0013	1 8.8	1.2847	20 15.8	0.8407_n
18.5	0.1330	1.478	1.0030	1 8.3	1.2841	20 11.6	0.8453_n
19.5	0.1358	1.485	1.0048	1 7.8	1.2835	20 7.4	0.8498_n
20.5	0.1385	1.492	1.0065	1 7.4	1.2829	20 3.2	0.8540_n
21.5	0.1412	1.498	1.0081	1 6.9	1.2823	19 59.0	0.8581_n
22.5	0.1440	+1.505	1.0098	1 6.4	1.2818	19 54.8	0.8621_n
23.5	0.1467	1.511	1.0114	1 6.0	1.2812	19 50.6	0.8658_n
24.5	0.1494	1.518	1.0130	1 5.6	1.2807	19 46.3	0.8694_n
25.5	0.1522	1.524	1.0146	1 5.2	1.2802	19 42.1	0.8728_n
26.5	0.1549	1.530	1.0162	1 4.8	1.2797	19 37.8	0.8760_n
27.5	0.1577	1.537	1.0178	1 4.4	1.2792	19 33.6	0.8792_n
28.5	0.1604	+1.543	1.0193	1 4.1	1.2787	19 29.3	0.8821_n
März 1.5	0.1631	1.549	1.0208	1 3.7	1.2782	19 25.0	0.8849_n
2.5	0.1659	1.555	1.0222	1 3.4	1.2778	19 20.7	0.8876_n
3.5	0.1686	1.561	1.0237	1 3.1	1.2774	19 16.4	0.8900_n
4.5	0.1713	1.567	1.0252	1 2.8	1.2770	19 12.1	0.8924_n
5.5	0.1741	1.573	1.0267	1 2.5	1.2766	19 7.8	0.8945_n
6.5	0.1768	+1.578	1.0282	1 2.2	1.2763	19 3.5	0.8966_n
7.5	0.1796	1.584	1.0296	1 2.0	1.2759	18 59.2	0.8985_n
8.5	0.1823	1.590	1.0311	1 1.8	1.2756	18 54.9	0.9003_n
9.5	0.1850	1.595	1.0325	1 1.5	1.2753	18 50.6	0.9019_n
10.5	0.1878	1.601	1.0339	1 1.3	1.2751	18 46.2	0.9034_n
11.5	0.1905	1.607	1.0353	1 1.2	1.2748	18 41.9	0.9048_n
12.5	0.1933	+1.612	1.0367	1 1.0	1.2746	18 37.6	0.9060_n
13.5	0.1960	1.618	1.0381	1 0.9	1.2744	18 33.2	0.9070_n
14.5	0.1987	1.623	1.0395	1 0.7	1.2742	18 28.9	0.9080_n
15.5	0.2015	1.629	1.0409	1 0.6	1.2741	18 24.6	0.9088_n
16.5	0.2042	1.634	1.0423	1 0.5	1.2740	18 20.2	0.9095_n
17.5	0.2069	1.639	1.0437	1 0.4	1.2739	18 15.9	0.9100_n
18.5	0.2097	+1.645	1.0450	1 0.3	1.2738	18 11.6	0.9105_n
19.5	0.2124	1.650	1.0464	1 0.3	1.2737	18 7.2	0.9107_n
20.5	0.2152	1.656	1.0478	1 0.2	1.2737	18 2.9	0.9109_n
21.5	0.2179	1.661	1.0492	1 0.2	1.2737	17 58.6	0.9109_n
22.5	0.2206	1.666	1.0506	1 0.1	1.2737	17 54.3	0.9108_n
23.5	0.2234	1.672	1.0520	1 0.1	1.2737	17 49.9	0.9106_n

Mittl. Zeit Greenwich	f′	g′	G′	Allgemeine Präzession seit 1919.0	Δψ	Δψ′	Wahre Schiefe	Δε	Δε′
1919	in 0.ˢ001	in 0.″01				in 0.″01	23° 26′		in 0.″01
Febr. 10.5	+ 6	+10	4.ʰ4	+ 5.″59	+17.″64	+10	56.″18	−3.″04	− 9
11.5	+11	10	2.8	5.72	17.63	+19	56.21	3.03	− 7
12.5	+15	10	1.1	5.86	17.61	+24	56.26	3.02	− 3
13.5	+15	10	23.5	6.00	17.59	+25	56.31	3.01	+ 1
14.5	+13	10	22.0	6.14	17.58	+22	56.35	3.00	+ 5
15.5	+ 9	10	20.6	6.27	17.56	+15	56.39	2.99	+ 7
16.5	+ 4	+ 9	19.1	+ 6.41	+17.53	+ 6	56.41	−2.98	+ 8
17.5	− 2	8	17.5	6.55	17.51	− 3	56.41	2.97	+ 8
18.5	− 6	7	15.6	6.69	17.49	−11	56.40	2.96	+ 6
19.5	−10	7	13.7	6.82	17.46	−16	56.38	2.95	+ 3
20.5	−12	8	11.9	6.96	17.43	−19	56.35	2.94	0
21.5	−12	8	10.5	7.10	17.40	−20	56.33	2.93	− 3
22.5	−10	+ 9	9.3	+ 7.24	+17.37	−17	56.31	−2.92	− 6
23.5	− 7	9	8.1	7.37	17.34	−11	56.30	2.91	− 7
24.5	− 3	8	6.9	7.51	17.31	− 5	56.30	2.91	− 8
25.5	+ 2	7	5.4	7.65	17.28	+ 3	56.32	2.90	− 7
26.5	+ 5	6	3.3	7.79	17.24	+ 9	56.35	2.89	− 4
27.5	+ 8	5	0.6	7.92	17.21	+13	56.39	2.89	− 1
28.5	+ 8	+ 6	21.9	+ 8.06	+17.17	+13	56.43	−2.88	+ 3
März 1.5	+ 6	7	19.9	8.20	17.13	+ 9	56.47	2.88	+ 6
2.5	+ 1	9	18.4	8.34	17.09	+ 2	56.49	2.87	+ 8
3.5	− 4	9	16.9	8.47	17.05	− 6	56.49	2.87	+ 8
4.5	− 8	8	15.3	8.61	17.01	−14	56.48	2.87	+ 6
5.5	−11	8	13.4	8.75	16.96	−18	56.44	2.86	+ 3
6.5	−11	+ 7	11.0	+ 8.89	+16.92	−18	56.40	−2.86	− 2
7.5	− 7	8	8.6	9.03	16.88	−12	56.36	2.86	− 6
8.5	− 2	9	6.6	9.16	16.83	− 3	56.33	2.86	− 9
9.5	+ 5	10	4.8	9.30	16.79	+ 7	56.32	2.86	− 9
10.5	+11	10	3.2	9.44	16.74	+17	56.33	2.86	− 8
11.5	+15	10	1.6	9.58	16.69	+24	56.36	2.86	− 4
12.5	+16	+10	0.1	+ 9.71	+16.65	+26	56.40	−2.86	0
13.5	+15	10	22.6	9.85	16.60	+24	56.44	2.86	+ 4
14.5	+11	10	21.1	9.99	16.55	+18	56.47	2.87	+ 7
15.5	+ 6	9	19.6	10.13	16.50	+ 9	56.48	2.87	+ 8
16.5	0	8	18.0	10.26	16.45	0	56.47	2.88	+ 8
17.5	− 5	7	16.2	10.40	16.41	− 8	56.45	2.88	+ 7
18.5	− 9	+ 7	14.2	+10.54	+16.36	−15	56.41	−2.89	+ 4
19.5	−11	7	12.4	10.68	16.31	−19	56.37	2.89	+ 1
20.5	−12	8	10.9	10.81	16.26	−19	56.34	2.90	− 2
21.5	−11	9	9.7	10.95	16.21	−18	56.30	2.91	− 5
22.5	− 8	9	8.5	11.09	16.16	−13	56.27	2.91	− 7
23.5	− 4	8	7.4	11.23	16.11	− 7	56.25	2.92	− 8

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i
1919							
				h m		h m	
März 23.5	0.2234	+1.672	1.0520	1 0.1	1.2737	17 49.9	0.9106_n
24.5	0.2261	1.677	1.0535	1 0.1	1.2738	17 45.6	0.9102_n
25.5	0.2288	1.682	1.0548	1 0.2	1.2739	17 41.3	0.9097_n
26.5	0.2316	1.688	1.0562	1 0.2	1.2740	17 37.0	0.9090_n
27.5	0.2343	1.693	1.0577	1 0.2	1.2742	17 32.7	0.9083_n
28.5	0.2371	1.699	1.0591	1 0.3	1.2743	17 28.4	0.9074_n
29.5	0.2398	+1.704	1.0605	1 0.3	1.2745	17 24.1	0.9064_n
30.5	0.2425	1.710	1.0619	1 0.4	1.2747	17 19.8	0.9053_n
31.5	0.2453	1.715	1.0633	1 0.5	1.2750	17 15.5	0.9040_n
April 1.5	0.2480	1.721	1.0648	1 0.6	1.2752	17 11.2	0.9025_n
2.5	0.2507	1.726	1.0663	1 0.7	1.2755	17 7.0	0.9010_n
3.5	0.2535	1.732	1.0677	1 0.8	1.2758	17 2.7	0.8993_n
4.5	0.2562	+1.737	1.0692	1 0.9	1.2761	16 58.5	0.8975_n
5.5	0.2590	1.743	1.0707	1 1.1	1.2764	16 54.2	0.8955_n
6.5	0.2617	1.749	1.0722	1 1.2	1.2768	16 50.0	0.8934_n
7.5	0.2644	1.755	1.0737	1 1.4	1.2772	16 45.8	0.8912_n
8.5	0.2672	1.760	1.0753	1 1.5	1.2776	16 41.6	0.8889_n
9.5	0.2699	1.766	1.0768	1 1.7	1.2780	16 37.4	0.8864_n
10.5	0.2727	+1.772	1.0784	1 1.8	1.2784	16 33.2	0.8837_n
11.5	0.2754	1.778	1.0799	1 2.0	1.2789	16 29.0	0.8809_n
12.5	0.2781	1.784	1.0815	1 2.2	1.2793	16 24.8	0.8780_n
13.5	0.2809	1.790	1.0831	1 2.4	1.2798	16 20.7	0.8749_n
14.5	0.2836	1.797	1.0847	1 2.6	1.2803	16 16.5	0.8717_n
15.5	0.2863	1.803	1.0864	1 2.8	1.2808	16 12.4	0.8683_n
16.5	0.2891	+1.809	1.0879	1 3.0	1.2814	16 8.3	0.8648_n
17.5	0.2918	1.816	1.0896	1 3.2	1.2819	16 4.2	0.8611_n
18.5	0.2946	1.822	1.0912	1 3.4	1.2824	16 0.1	0.8573_n
19.5	0.2973	1.828	1.0929	1 3.6	1.2830	15 56.0	0.8533_n
20.5	0.3000	1.835	1.0946	1 3.8	1.2836	15 51.9	0.8491_n
21.5	0.3028	1.842	1.0963	1 4.0	1.2842	15 47.8	0.8448_n
22.5	0.3055	+1.849	1.0980	1 4.2	1.2847	15 43.8	0.8403_n
23.5	0.3082	1.855	1.0997	1 4.4	1.2853	15 39.8	0.8356_n
24.5	0.3110	1.862	1.1014	1 4.6	1.2859	15 35.7	0.8308_n
25.5	0.3137	1.869	1.1032	1 4.8	1.2865	15 31.7	0.8258_n
26.5	0.3165	1.876	1.1049	1 5.0	1.2872	15 27.8	0.8205_n
27.5	0.3192	1.884	1.1067	1 5.2	1.2878	15 23.8	0.8151_n
28.5	0.3219	+1.891	1.1085	1 5.4	1.2884	15 19.8	0.8096_n
29.5	0.3247	1.898	1.1103	1 5.7	1.2890	15 15.8	0.8038_n
30.5	0.3274	1.906	1.1121	1 5.9	1.2897	15 11.9	0.7978_n
Mai 1.5	0.3301	1.913	1.1138	1 6.1	1.2903	15 8.0	0.7916_n
2.5	0.3329	1.921	1.1157	1 6.2	1.2909	15 4.1	0.7853_n
3.5	0.3356	1.928	1.1175	1 6.4	1.2916	15 0.2	0.7787_n

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1919.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1919	in $0^{s}.001$	in $0''.01$				in $0''.01$	23° 26′		in $0''.01$
März 23.5	− 4	+ 8	$7^{h}.4$	$+11''.23$	$+16''.11$	− 7	$56''.25$	$-2''.92$	− 8
24.5	0	7	6.1	11.36	16.06	0	56.25	2.93	− 7
25.5	+ 4	6	4.3	11.50	16.01	+ 6	56.26	2.94	− 5
26.5	+ 6	5	1.7	11.64	15.96	+10	56.28	2.95	− 2
27.5	+ 7	5	22.5	11.78	15.91	+12	56.30	2.97	+ 2
28.5	+ 5	7	20.2	11.92	15.86	+ 9	56.32	2.98	+ 5
29.5	+ 2	+ 8	18.6	+12.05	+15.81	+ 3	56.33	−2.99	+ 8
30.5	− 3	9	17.1	12.19	15.76	− 5	56.33	3.01	+ 9
31.5	− 8	9	15.6	12.33	15.71	−13	56.30	3.02	+ 7
April 1.5	−11	8	14.0	12.47	15.67	−18	56.25	3.03	+ 4
2.5	−11	7	11.8	12.60	15.62	−19	56.19	3.05	0
3.5	− 9	7	9.4	12.74	15.57	−15	56.13	3.06	− 5
4.5	− 4	+ 8	7.1	+12.88	+15.53	− 6	56.08	−3.08	− 8
5.5	+ 3	9	5.3	13.02	15.49	+ 5	56.05	3.10	− 9
6.5	+ 9	10	3.6	13.15	15.44	+15	56.04	3.12	− 8
7.5	+14	11	2.1	13.29	15.40	+24	56.04	3.13	− 6
8.5	+17	11	0.6	13.43	15.36	+28	56.06	3.15	− 2
9.5	+16	11	23.1	13.57	15.32	+27	56.08	3.17	+ 2
10.5	+13	+10	21.7	+13.70	+15.27	+21	56.10	−3.19	+ 6
11.5	+ 8	10	20.2	13.84	15.23	+13	56.10	3.21	+ 8
12.5	+ 2	8	18.7	13.98	15.20	+ 4	56.08	3.23	+ 8
13.5	− 3	7	17.0	14.12	15.16	− 5	56.04	3.25	+ 7
14.5	− 7	7	15.0	14.25	15.12	−12	56.00	3.28	+ 5
15.5	−10	7	13.0	14.39	15.09	−17	55.94	3.30	+ 2
16.5	−11	+ 8	11.2	+14.53	+15.05	−19	55.89	−3.32	− 1
17.5	−11	8	9.9	14.67	15.02	−18	55.83	3.34	− 4
18.5	− 9	9	8.7	14.80	14.99	−14	55.79	3.37	− 6
19.5	− 5	8	7.6	14.94	14.96	− 9	55.75	3.39	− 8
20.5	− 1	7	6.4	15.08	14.93	− 2	55.73	3.42	− 7
21.5	+ 3	6	4.9	15.22	14.90	+ 4	55.72	3.44	− 6
22.5	+ 5	+ 5	2.7	+15.36	+14.87	+ 9	55.72	−3.46	− 3
23.5	+ 6	4	23.5	15.49	14.84	+11	55.73	3.49	+ 1
24.5	+ 5	6	20.6	15.63	14.82	+ 9	55.74	3.51	+ 4
25.5	+ 2	7	18.7	15.77	14.80	+ 3	55.74	3.54	+ 7
26.5	− 3	9	17.3	15.91	14.77	− 4	55.73	3.56	+ 9
27.5	− 8	9	15.9	16.04	14.75	−12	55.70	3.59	+ 8
28.5	−11	+ 9	14.3	+16.18	+14.73	−19	55.64	−3.62	+ 5
29.5	−13	8	12.5	16.32	14.72	−21	55.58	3.64	+ 1
30.5	−11	8	10.4	16.46	14.70	−18	55.50	3.67	− 3
Mai 1.5	− 7	8	8.1	16.59	14.68	−11	55.44	3.69	− 7
2.5	0	9	6.0	16.73	14.67	0	55.39	3.72	− 9
3.5	+ 7	10	4.2	16.87	14.66	+12	55.37	3.75	− 9

Mittl. Zeit Greenwich		t	f	log g	G	log h	H	log i	i
1919					h m		h m		
Mai	3.5	0.3356	+1.928	1.1175	1 6.4	1.2916	15 0.2	0.7787_n	
	4.5	0.3384	1.936	1.1194	1 6.6	1.2922	14 56.3	0.7717_n	
	5.5	0.3411	1.944	1.1212	1 6.8	1.2928	14 52.4	0.7647_n	
	6.5	0.3438	1.952	1.1231	1 7.0	1.2935	14 48.6	0.7574_n	
	7.5	0.3466	1.960	1.1250	1 7.2	1.2941	14 44.7	0.7498_n	
	8.5	0.3493	1.968	1.1269	1 7.3	1.2947	14 40.9	0.7419_n	
	9.5	0.3520	+1.976	1.1288	1 7.5	1.2953	14 37.1	0.7338_n	
	10.5	0.3548	1.984	1.1307	1 7.7	1.2959	14 33.3	0.7255_n	
	11.5	0.3575	1.993	1.1326	1 7.8	1.2966	14 29.5	0.7169_n	
	12.5	0.3603	2.001	1.1345	1 7.9	1.2972	14 25.7	0.7080_n	
	13.5	0.3630	2.010	1.1365	1 8.1	1.2978	14 21.9	0.6987_n	
	14.5	0.3657	2.018	1.1384	1 8.2	1.2984	14 18.1	0.6891_n	
	15.5	0.3685	+2.027	1.1403	1 8.3	1.2989	14 14.4	0.6792_n	−4.778
	16.5	0.3712	2.036	1.1423	1 8.5	1.2995	14 10.7	0.6689_n	4.666
	17.5	0.3740	2.044	1.1443	1 8.6	1.3001	14 6.9	0.6583_n	4.553
	18.5	0.3767	2.053	1.1462	1 8.7	1.3007	14 3.2	0.6473_n	4.439
	19.5	0.3794	2.062	1.1481	1 8.8	1.3012	13 59.5	0.6359_n	4.324
	20.5	0.3822	2.071	1.1501	1 8.9	1.3017	13 55.8	0.6241_n	4.208
	21.5	0.3849	+2.081	1.1521	1 9.0	1.3023	13 52.2	0.6116_n	−4.089
	22.5	0.3876	2.090	1.1540	1 9.0	1.3028	13 48.5	0.5988_n	3.970
	23.5	0.3904	2.099	1.1560	1 9.1	1.3033	13 44.8	0.5856_n	3.851
	24.5	0.3931	2.108	1.1580	1 9.2	1.3038	13 41.2	0.5717_n	3.730
	25.5	0.3959	2.118	1.1600	1 9.2	1.3043	13 37.5	0.5573_n	3.608
	26.5	0.3986	2.127	1.1620	1 9.3	1.3047	13 33.9	0.5422_n	3.485
	27.5	0.4013	+2.137	1.1639	1 9.3	1.3052	13 30.3	0.5265_n	−3.361
	28.5	0.4041	2.146	1.1658	1 9.3	1.3056	13 26.7	0.5101_n	3.237
	29.5	0.4068	2.156	1.1678	1 9.4	1.3060	13 23.0	0.4930_n	3.112
	30.5	0.4095	2.166	1.1698	1 9.4	1.3064	13 19.5	0.4749_n	2.985
	31.5	0.4123	2.175	1.1717	1 9.4	1.3068	13 15.9	0.4561_n	2.858
Juni	1.5	0.4150	2.185	1.1737	1 9.4	1.3072	13 12.3	0.4362_n	2.730
	2.5	0.4178	+2.195	1.1756	1 9.4	1.3076	13 8.7	0.4151_n	−2.601
	3.5	0.4205	2.205	1.1776	1 9.3	1.3079	13 5.1	0.3930_n	2.472
	4.5	0.4232	2.215	1.1796	1 9.3	1.3083	13 1.6	0.3696_n	2.342
	5.5	0.4260	2.225	1.1815	1 9.3	1.3086	12 58.0	0.3446_n	2.211
	6.5	0.4287	2.235	1.1835	1 9.2	1.3089	12 54.5	0.3181_n	2.080
	7.5	0.4314	2.245	1.1854	1 9.2	1.3091	12 50.9	0.2896_n	1.948
	8.5	0.4342	+2.256	1.1873	1 9.1	1.3094	12 47.4	0.2591_n	−1.816
	9.5	0.4369	2.266	1.1892	1 9.0	1.3096	12 43.8	0.2261_n	1.683
	10.5	0.4397	2.276	1.1911	1 9.0	1.3099	12 40.3	0.1903_n	1.550
	11.5	0.4424	2.286	1.1930	1 8.9	1.3101	12 36.8	0.1511_n	1.416
	12.5	0.4451	2.296	1.1949	1 8.8	1.3103	12 33.3	0.1082_n	1.283
	13.5	0.4479	2.307	1.1968	1 8.7	1.3104	12 29.8	0.0599_n	1.148

Mittl. Zeit Greenwich	f′	g′	G′	Allgemeine Präzession seit 1919.0	Δψ	Δψ′	Wahre Schiefe	Δε	Δε′
1919	in 0.001	in 0.01				in 0.01	23° 26′		in 0.01
Mai 3.5	+ 7	+10	4.2	+16.87	+14.66	+12	55.37	−3.75	− 9
4.5	+13	11	2.5	17.01	14.65	+21	55.36	3.77	− 7
5.5	+17	11	1.0	17.14	14.64	+27	55.37	3.80	− 3
6.5	+17	11	23.6	17.28	14.63	+28	55.38	3.83	+ 1
7.5	+15	11	22.2	17.42	14.62	+25	55.39	3.85	+ 5
8.5	+11	10	20.9	17.56	14.62	+17	55.39	3.88	+ 7
9.5	+ 5	+ 9	19.4	+17.69	+14.61	+ 8	55.37	−3.91	+ 8
10.5	− 1	8	17.8	17.83	14.61	− 1	55.34	3.93	+ 8
11.5	− 5	7	15.9	17.97	14.61	− 9	55.29	3.96	+ 6
12.5	− 9	6	13.7	18.11	14.61	−14	55.23	3.98	+ 3
13.5	−10	7	11.8	18.25	14.61	−17	55.18	4.01	0
14.5	−10	8	10.2	18.38	14.62	−17	55.12	4.03	− 3
15.5	− 9	+ 8	9.0	+18.52	+14.62	−14	55.07	−4.06	− 6
16.5	− 6	8	7.8	18.66	14.63	− 9	55.03	4.08	− 7
17.5	− 2	8	6.6	18.80	14.63	− 3	55.00	4.11	− 8
18.5	+ 2	7	5.2	18.93	14.64	+ 3	54.98	4.13	− 6
19.5	+ 5	5	3.4	19.07	14.65	+ 8	54.98	4.16	− 4
20.5	+ 7	4	0.5	19.21	14.66	+11	54.99	4.18	− 1
21.5	+ 6	+ 5	21.5	+19.35	+14.67	+10	55.00	−4.21	+ 3
22.5	+ 3	7	19.2	19.48	14.69	+ 5	55.01	4.23	+ 6
23.5	− 1	8	17.6	19.62	14.70	− 2	55.00	4.25	+ 8
24.5	− 7	9	16.2	19.76	14.72	−11	54.98	4.28	+ 8
25.5	−11	10	14.7	19.90	14.73	−18	54.94	4.30	+ 6
26.5	−14	9	13.2	20.03	14.75	−22	54.88	4.32	+ 3
27.5	−13	+ 9	11.3	+20.17	+14.77	−22	54.81	−4.34	− 2
28.5	−10	8	9.2	20.31	14.79	−16	54.75	4.37	− 6
29.5	− 4	9	7.0	20.45	14.81	− 6	54.70	4.39	− 8
30.5	+ 4	9	5.0	20.58	14.83	+ 6	54.67	4.41	− 9
31.5	+10	10	3.2	20.72	14.85	+17	54.66	4.43	− 7
Juni 1.5	+15	11	1.6	20.86	14.88	+25	54.67	4.45	− 4
2.5	+17	+11	0.1	+21.00	+14.90	+28	54.69	−4.47	0
3.5	+16	11	22.6	21.13	14.93	+26	54.72	4.48	+ 4
4.5	+12	11	21.3	21.27	14.95	+20	54.73	4.50	+ 7
5.5	+ 7	10	20.0	21.41	14.98	+12	54.72	4.52	+ 8
6.5	+ 2	8	18.5	21.55	15.01	+ 2	54.70	4.54	+ 8
7.5	− 4	7	16.7	21.69	15.03	− 6	54.66	4.55	+ 6
8.5	− 7	+ 6	14.4	+21.82	+15.06	−12	54.62	−4.57	+ 4
9.5	−10	6	12.3	21.96	15.09	−16	54.57	4.59	0
10.5	−10	7	10.5	22.10	15.12	−16	54.52	4.60	− 3
11.5	− 9	8	9.1	22.24	15.15	−14	54.48	4.62	− 5
12.5	− 6	8	7.9	22.37	15.18	−10	54.45	4.63	− 7
13.5	− 2	8	6.8	22.51	15.21	− 4	54.43	4.64	− 8

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i	i
1919		s		h m		h m		s
Juni 13.5	0.4479	+2.307	1.1968	1 8.7	1.3104	12 29.8	0.0599$_n$	−1.148
14.5	0.4506	2.317	1.1987	1 8.5	1.3106	12 26.2	0.0056$_n$	1.013
15.5	0.4534	2.327	1.2005	1 8.4	1.3107	12 22.7	9.9435$_n$	0.878
16.5	0.4561	2.338	1.2024	1 8.3	1.3108	12 19.2	9.8710$_n$	0.743
17.5	0.4588	2.348	1.2042	1 8.2	1.3109	12 15.7	9.7839$_n$	0.608
18.5	0.4616	2.359	1.2061	1 8.0	1.3110	12 12.2	9.6749$_n$	0.473
19.5	0.4643	+2.369	1.2079	1 7.9	1.3111	12 8.7	9.5276$_n$	−0.337
20.5	0.4670	2.379	1.2097	1 7.7	1.3111	12 5.2	9.3032$_n$	0.201
21.5	0.4698	2.390	1.2115	1 7.5	1.3111	12 1.7	8.8195$_n$	−0.066
22.5	0.4725	2.400	1.2133	1 7.4	1.3111	11 58.2	8.8451	+0.070
23.5	0.4753	2.410	1.2151	1 7.2	1.3111	11 54.7	9.3139	0.206
24.5	0.4780	2.421	1.2169	1 7.0	1.3111	11 51.2	9.5328	0.341
25.5	0.4807	+2.431	1.2186	1 6.8	1.3110	11 47.7	9.6776	+0.476
26.5	0.4835	2.442	1.2203	1 6.6	1.3109	11 44.2	9.7860	0.611
27.5	0.4862	2.452	1.2220	1 6.4	1.3108	11 40.7	9.8727	0.746
28.5	0.4889	2.462	1.2238	1 6.2	1.3107	11 37.2	9.9450	0.881
29.5	0.4917	2.473	1.2255	1 6.0	1.3106	11 33.7	0.0069	1.016
30.5	0.4944	2.483	1.2271	1 5.8	1.3104	11 30.2	0.0607	1.150
Juli 1.5	0.4972	+2.493	1.2288	1 5.6	1.3103	11 26.7	0.1086	+1.284
2.5	0.4999	2.504	1.2304	1 5.3	1.3101	11 23.1	0.1517	1.418
3.5	0.5026	2.514	1.2321	1 5.1	1.3099	11 19.6	0.1906	1.551
4.5	0.5054	2.524	1.2338	1 4.9	1.3096	11 16.1	0.2263	1.684
5.5	0.5081	2.534	1.2354	1 4.6	1.3094	11 12.6	0.2591	1.816
6.5	0.5108	2.544	1.2369	1 4.4	1.3091	11 9.0	0.2896	1.948
7.5	0.5136	+2.554	1.2385	1 4.1	1.3089	11 5.5	0.3181	+2.080
8.5	0.5163	2.564	1.2401	1 3.9	1.3086	11 2.0	0.3446	2.211
9.5	0.5191	2.574	1.2416	1 3.6	1.3083	10 58.4	0.3694	2.341
10.5	0.5218	2.584	1.2432	1 3.3	1.3079	10 54.9	0.3927	2.470
11.5	0.5245	2.594	1.2447	1 3.1	1.3076	10 51.3	0.4148	2.599
12.5	0.5273	2.604	1.2463	1 2.8	1.3072	10 47.8	0.4357	2.727
13.5	0.5300	+2.614	1.2477	1 2.5	1.3068	10 44.2	0.4555	+2.854
14.5	0.5328	2.624	1.2492	1 2.3	1.3065	10 40.6	0.4744	2.981
15.5	0.5355	2.633	1.2506	1 2.0	1.3060	10 37.1	0.4923	3.107
16.5	0.5382	2.643	1.2520	1 1.7	1.3056	10 33.5	0.5095	3.232
17.5	0.5410	2.653	1.2535	1 1.4	1.3052	10 29.9	0.5260	3.357
18.5	0.5437	2.662	1.2549	1 1.1	1.3048	10 26.3	0.5415	3.479
19.5	0.5464	+2.671	1.2563	1 0.9	1.3043	10 22.7	0.5564	+3.601
20.5	0.5492	2.681	1.2577	1 0.6	1.3038	10 19.1	0.5708	3.722
21.5	0.5519	2.690	1.2590	1 0.3	1.3033	10 15.4	0.5846	3.842
22.5	0.5547	2.699	1.2604	1 0.0	1.3028	10 11.8	0.5979	3.962
23.5	0.5574	2.709	1.2617	0 59.7	1.3023	10 8.1	0.6107	4.080
24.5	0.5601	2.718	1.2630	0 59.4	1.3018	10 4.5	0.6229	4.197

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1919.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'
1919	in 0.ˢ001	in 0.″01				in 0.″01	23° 26′		in 0.″01
Juni 13.5	− 2	+ 8	6.ʰ8	+22.″51	+15.″21	− 4	54.″43	−4.″64	− 8
14.5	+ 2	7	5.5	22.65	15.24	+ 2	54.42	4.66	− 7
15.5	+ 5	6	3.7	22.79	15.27	+ 8	54.43	4.67	− 5
16.5	+ 7	5	1.3	22.92	15.31	+12	54.45	4.68	− 2
17.5	+ 7	5	22.6	23.06	15.34	+12	54.47	4.69	+ 2
18.5	+ 5	6	20.1	23.20	15.37	+ 8	54.50	4.70	+ 5
19.5	+ 1	+ 8	18.3	+23.34	+15.40	+ 1	54.51	−4.71	+ 8
20.5	− 5	9	16.7	23.47	15.44	− 7	54.51	4.72	+ 8
21.5	−10	9	15.2	23.61	15.47	−16	54.48	4.73	+ 7
22.5	−13	10	13.7	23.75	15.50	−22	54.44	4.74	+ 4
23.5	−14	9	12.0	23.89	15.53	−23	54.39	4.74	0
24.5	−12	9	10.0	24.02	15.57	−20	54.34	4.75	− 4
25.5	− 7	+ 9	8.0	+24.16	+15.60	−11	54.30	−4.75	− 8
26.5	0	9	6.0	24.30	15.63	0	54.28	4.76	− 9
27.5	+ 7	9	4.0	24.44	15.66	+12	54.29	4.76	− 8
28.5	+13	10	2.2	24.58	15.69	+21	54.31	4.77	− 5
29.5	+16	10	0.5	24.71	15.72	+26	54.34	4.77	− 1
30.5	+16	11	23.1	24.85	15.76	+26	54.38	4.78	+ 2
Juli 1.5	+13	+11	21.7	+24.99	+15.79	+22	54.41	−4.78	+ 6
2.5	+ 9	10	20.4	25.13	15.82	+14	54.42	4.78	+ 8
3.5	+ 3	9	18.9	25.26	15.85	+ 5	54.42	4.78	+ 8
4.5	− 2	7	17.2	25.40	15.87	− 3	54.41	4.78	+ 7
5.5	− 6	6	15.2	25.54	15.90	−10	54.38	4.78	+ 4
6.5	− 9	6	12.9	25.68	15.93	−15	54.35	4.78	+ 1
7.5	−10	+ 7	11.0	+25.81	+15.96	−16	54.32	−4.78	− 2
8.5	− 9	7	9.5	25.95	15.99	−15	54.29	4.78	− 5
9.5	− 7	8	8.2	26.09	16.01	−11	54.27	4.78	− 7
10.5	− 3	8	7.0	26.23	16.04	− 5	54.26	4.78	− 7
11.5	+ 1	7	5.8	26.36	16.06	+ 1	54.26	4.78	− 7
12.5	+ 4	6	4.2	26.50	16.09	+ 7	54.28	4.77	− 6
13.5	+ 7	+ 6	2.1	+26.64	+16.11	+12	54.31	−4.77	− 3
14.5	+ 8	5	23.5	26.78	16.13	+13	54.35	4.76	+ 1
15.5	+ 7	6	21.0	26.91	16.15	+11	54.39	4.76	+ 4
16.5	+ 3	7	19.1	27.05	16.17	+ 5	54.42	4.75	+ 7
17.5	− 2	9	17.5	27.19	16.19	− 3	54.44	4.75	+ 8
18.5	− 7	9	15.9	27.33	16.21	−12	54.44	4.74	+ 8
19.5	−12	+ 9	14.4	+27.47	+16.23	−19	54.42	−4.73	+ 5
20.5	−14	9	12.6	27.60	16.24	−22	54.39	4.73	+ 1
21.5	−13	9	10.7	27.74	16.26	−21	54.35	4.72	− 3
22.5	− 9	9	8.8	27.88	16.27	−15	54.32	4.71	− 7
23.5	− 3	9	6.7	28.02	16.28	− 4	54.31	4.70	− 9
24.5	+ 4	9	4.8	28.15	16.29	+ 7	54.31	4.70	− 9

Mittl. Zeit Greenwich		t	f	log g	G	log h	H	log i	i
1919			s		h m		h m		"
Juli	24.5	0.5601	+2.718	1.2630	0 59.4	1.3018	10 4.5	0.6229	+4.197
	25.5	0.5629	2.727	1.2642	0 59.1	1.3012	10 0.8	0.6347	4.312
	26.5	0.5656	2.736	1.2655	0 58.8	1.3007	9 57.2	0.6461	4.427
	27.5	0.5683	2.744	1.2668	0 58.5	1.3002	9 53.5	0.6571	4.540
	28.5	0.5711	2.753	1.2681	0 58.2	1.2996	9 49.8	0.6676	4.652
	29.5	0.5738	2.762	1.2693	0 58.0	1.2990	9 46.1	0.6779	4.763
	30.5	0.5766	+2.771	1.2705	0 57.7	1.2984	9 42.4	0.6878	
	31.5	0.5793	2.779	1.2717	0 57.4	1.2978	9 38.6	0.6973	
Aug.	1.5	0.5820	2.788	1.2729	0 57.1	1.2973	9 34.9	0.7065	
	2.5	0.5848	2.796	1.2741	0 56.8	1.2967	9 31.1	0.7155	
	3.5	0.5875	2.804	1.2752	0 56.5	1.2961	9 27.4	0.7241	
	4.5	0.5902	2.812	1.2764	0 56.2	1.2954	9 23.6	0.7325	
	5.5	0.5930	+2.821	1.2775	0 56.0	1.2948	9 19.8	0.7405	
	6.5	0.5957	2.829	1.2786	0 55.7	1.2942	9 16.0	0.7483	
	7.5	0.5985	2.837	1.2797	0 55.4	1.2936	9 12.2	0.7558	
	8.5	0.6012	2.844	1.2808	0 55.1	1.2930	9 8.4	0.7631	
	9.5	0.6039	2.852	1.2818	0 54.9	1.2923	9 4.6	0.7702	
	10.5	0.6067	2.860	1.2828	0 54.6	1.2917	9 0.7	0.7770	
	11.5	0.6094	+2.867	1.2839	0 54.3	1.2911	8 56.9	0.7836	
	12.5	0.6121	2.875	1.2849	0 54.1	1.2904	8 53.0	0.7900	
	13.5	0.6149	2.882	1.2859	0 53.8	1.2898	8 49.1	0.7962	
	14.5	0.6176	2.890	1.2869	0 53.6	1.2892	8 45.2	0.8022	
	15.5	0.6204	2.897	1.2879	0 53.3	1.2886	8 41.3	0.8079	
	16.5	0.6231	2.904	1.2889	0 53.1	1.2880	8 37.4	0.8135	
	17.5	0.6258	+2.911	1.2898	0 52.8	1.2873	8 33.5	0.8189	
	18.5	0.6286	2.918	1.2907	0 52.6	1.2867	8 29.5	0.8241	
	19.5	0.6313	2.925	1.2917	0 52.4	1.2861	8 25.6	0.8291	
	20.5	0.6341	2.932	1.2926	0 52.1	1.2855	8 21.6	0.8340	
	21.5	0.6368	2.939	1.2935	0 51.9	1.2849	8 17.6	0.8387	
	22.5	0.6395	2.946	1.2944	0 51.7	1.2844	8 13.6	0.8432	
	23.5	0.6423	+2.952	1.2952	0 51.5	1.2838	8 9.6	0.8475	
	24.5	0.6450	2.959	1.2961	0 51.3	1.2832	8 5.6	0.8517	
	25.5	0.6477	2.965	1.2970	0 51.1	1.2827	8 1.6	0.8557	
	26.5	0.6505	2.972	1.2979	0 50.9	1.2821	7 57.5	0.8596	
	27.5	0.6532	2.978	1.2987	0 50.7	1.2816	7 53.5	0.8633	
	28.5	0.6560	2.984	1.2996	0 50.5	1.2811	7 49.4	0.8668	
	29.5	0.6587	+2.991	1.3004	0 50.3	1.2806	7 45.3	0.8702	
	30.5	0.6614	2.997	1.3012	0 50.2	1.2801	7 41.2	0.8734	
	31.5	0.6642	3.003	1.3020	0 50.0	1.2796	7 37.1	0.8766	
Sept.	1.5	0.6669	3.009	1.3028	0 49.8	1.2791	7 33.0	0.8796	
	2.5	0.6696	3.015	1.3036	0 49.7	1.2786	7 28.9	0.8824	
	3.5	0.6724	3.020	1.3044	0 49.5	1.2782	7 24.8	0.8850	

Mittl. Zeit Greenwich		f′	g′	G′	Allgemeine Präzession seit 1919.0	Δψ	Δψ′	Wahre Schiefe	Δε	Δε′
1919		in 0.001 s	in 0.01				in 0.01 ″	23° 26′		in 0.01 ″
Juli	24.5	+ 4	+ 9	4.8 h	+28.15 ″	+16.29 ″	+ 7	54.31 ″	−4.70 ″	− 9
	25.5	+10	9	2.9	28.29	16.30	+17	54.34	4.69	− 7
	26.5	+14	10	1.2	28.43	16.31	+23	54.39	4.68	− 3
	27.5	+15	10	23.5	28.57	16.32	+25	54.44	4.67	+ 1
	28.5	+14	10	22.0	28.70	16.32	+22	54.48	4.66	+ 5
	29.5	+10	10	20.7	28.84	16.33	+16	54.51	4.65	+ 7
	30.5	+ 4	+ 9	19.2	+28.98	+16.33	+ 7	54.53	−4.64	+ 8
	31.5	− 1	8	17.7	29.12	16.33	− 2	54.53	4.63	+ 8
Aug.	1.5	− 5	6	15.8	29.25	16.34	− 9	54.52	4.62	+ 5
	2.5	− 9	6	13.5	29.39	16.34	−14	54.50	4.61	+ 2
	3.5	−10	6	11.5	29.53	16.33	−16	54.47	4.60	− 1
	4.5	−10	7	9.9	29.67	16.33	−16	54.45	4.59	− 4
	5.5	− 8	+ 8	8.6	+29.80	+16.33	−12	54.44	−4.58	− 6
	6.5	− 5	8	7.5	29.94	16.32	− 8	54.44	4.57	− 7
	7.5	− 1	7	6.3	30.08	16.31	− 1	54.45	4.56	− 7
	8.5	+ 3	7	4.8	30.22	16.30	+ 5	54.47	4.55	− 6
	9.5	+ 6	6	2.9	30.35	16.29	+10	54.50	4.54	− 4
	10.5	+ 8	5	0.4	30.49	16.28	+13	54.54	4.53	− 1
	11.5	+ 8	+ 6	21.9	+30.63	+16.27	+13	54.59	−4.51	+ 3
	12.5	+ 5	7	19.9	30.77	16.25	+ 8	54.63	4.50	+ 6
	13.5	+ 1	8	18.2	30.91	16.24	+ 1	54.66	4.49	+ 8
	14.5	− 5	9	16.6	31.04	16.22	− 7	54.67	4.48	+ 8
	15.5	− 9	9	15.0	31.18	16.20	−15	54.66	4.47	+ 6
	16.5	−12	8	13.3	31.32	16.18	−20	54.63	4.46	+ 3
	17.5	−13	+ 8	11.3	+31.46	+16.16	−20	54.60	−4.45	− 2
	18.5	−10	8	9.3	31.59	16.14	−16	54.57	4.44	− 5
	19.5	− 4	9	7.3	31.73	16.11	− 7	54.55	4.43	− 8
	20.5	+ 2	9	5.3	31.87	16.08	+ 4	54.55	4.42	− 9
	21.5	+ 9	9	3.5	32.01	16.06	+14	54.57	4.41	− 7
	22.5	+13	10	1.7	32.14	16.03	+22	54.61	4.40	− 4
	23.5	+15	+10	0.0	+32.28	+16.00	+25	54.66	−4.39	0
	24.5	+14	10	22.4	32.42	15.97	+23	54.71	4.39	+ 4
	25.5	+11	10	21.0	32.56	15.94	+17	54.75	4.38	+ 7
	26.5	+ 6	9	19.6	32.69	15.91	+ 9	54.77	4.37	+ 8
	27.5	0	8	18.1	32.83	15.87	0	54.77	4.36	+ 8
	28.5	− 5	7	16.3	32.97	15.84	− 7	54.76	4.36	+ 6
	29.5	− 8	+ 6	14.2	+33.11	+15.80	−13	54.73	−4.35	+ 3
	30.5	−10	6	12.1	33.24	15.76	−16	54.71	4.34	0
	31.5	−10	7	10.4	33.38	15.72	−16	54.68	4.34	− 3
Sept.	1.5	− 9	8	9.0	33.52	15.68	−14	54.66	4.33	− 6
	2.5	− 6	8	7.9	33.66	15.64	− 9	54.65	4.33	− 7
	3.5	− 2	8	6.8	33.80	15.60	− 4	54.65	4.32	− 7

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i
1919				h m		h m	
Sept. 3.5	0.6724	+3.020	1.3044	0 49.5	1.2782	7 24.8	0.8850
4.5	0.6751	3.026	1.3051	0 49.4	1.2778	7 20.6	0.8876
5.5	0.6779	3.032	1.3059	0 49.2	1.2774	7 16.5	0.8900
6.5	0.6806	3.038	1.3067	0 49.1	1.2770	7 12.3	0.8923
7.5	0.6833	3.043	1.3075	0 49.0	1.2767	7 8.2	0.8944
8.5	0.6861	3.049	1.3082	0 48.9	1.2763	7 4.0	0.8964
9.5	0.6888	+3.054	1.3090	0 48.8	1.2760	6 59.8	0.8982
10.5	0.6915	3.060	1.3097	0 48.7	1.2757	6 55.6	0.9000
11.5	0.6943	3.065	1.3105	0 48.6	1.2754	6 51.4	0.9016
12.5	0.6970	3.071	1.3111	0 48.5	1.2751	6 47.2	0.9031
13.5	0.6998	3.076	1.3119	0 48.4	1.2749	6 43.0	0.9044
14.5	0.7025	3.082	1.3126	0 48.4	1.2746	6 38.7	0.9056
15.5	0.7052	+3.087	1.3133	0 48.3	1.2744	6 34.5	0.9068
16.5	0.7080	3.092	1.3141	0 48.2	1.2743	6 30.2	0.9077
17.5	0.7107	3.098	1.3148	0 48.2	1.2741	6 26.0	0.9085
18.5	0.7135	3.103	1.3156	0 48.1	1.2740	6 21.7	0.9092
19.5	0.7162	3.108	1.3163	0 48.1	1.2739	6 17.5	0.9098
20.5	0.7189	3.113	1.3170	0 48.1	1.2738	6 13.2	0.9103
21.5	0.7217	+3.118	1.3177	0 48.1	1.2737	6 9.0	0.9106
22.5	0.7244	3.124	1.3184	0 48.0	1.2737	6 4.7	0.9108
23.5	0.7271	3.129	1.3191	0 48.0	1.2737	6 0.4	0.9109
24.5	0.7299	3.134	1.3198	0 48.0	1.2737	5 56.2	0.9109
25.5	0.7326	3.139	1.3206	0 48.1	1.2737	5 51.9	0.9107
26.5	0.7354	3.145	1.3213	0 48.1	1.2738	5 47.6	0.9104
27.5	0.7381	+3.150	1.3220	0 48.1	1.2739	5 43.3	0.9099
28.5	0.7408	3.155	1.3227	0 48.1	1.2740	5 39.1	0.9094
29.5	0.7436	3.160	1.3235	0 48.2	1.2741	5 34.8	0.9087
30.5	0.7463	3.166	1.3243	0 48.2	1.2743	5 30.5	0.9079
Okt. 1.5	0.7490	3.171	1.3250	0 48.3	1.2744	5 26.2	0.9069
2.5	0.7518	3.176	1.3257	0 48.3	1.2746	5 22.0	0.9058
3.5	0.7545	+3.182	1.3264	0 48.4	1.2748	5 17.7	0.9047
4.5	0.7573	3.187	1.3273	0 48.4	1.2751	5 13.4	0.9033
5.5	0.7600	3.192	1.3280	0 48.5	1.2753	5 9.2	0.9018
6.5	0.7627	3.198	1.3288	0 48.6	1.2756	5 4.9	0.9002
7.5	0.7655	3.203	1.3296	0 48.7	1.2759	5 0.6	0.8985
8.5	0.7682	3.209	1.3303	0 48.8	1.2763	4 56.4	0.8966
9.5	0.7709	+3.214	1.3311	0 48.8	1.2766	4 52.1	0.8945
10.5	0.7737	3.220	1.3319	0 48.9	1.2770	4 47.9	0.8924
11.5	0.7764	3.225	1.3327	0 49.0	1.2774	4 43.6	0.8900
12.5	0.7792	3.231	1.3335	0 49.2	1.2778	4 39.4	0.8876
13.5	0.7819	3.237	1.3344	0 49.3	1.2782	4 35.2	0.8850
14.5	0.7846	3.243	1.3352	0 49.4	1.2787	4 30.9	0.8822

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1919.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'
1919	in 0.ˢ001	in 0.″01				in 0.″01	23° 26′		in 0.″01
Sept. 3.5	− 2	+ 8	6.ʰ8	+33.″80	+15.″60	− 4	54.″65	−4.″32	− 7
4.5	+ 1	7	5.4	33.93	15.56	+ 2	54.66	4.32	− 7
5.5	+ 5	6	3.7	34.07	15.52	+ 8	54.68	4.31	− 5
6.5	+ 7	5	1.4	34.21	15.47	+11	54.71	4.31	− 2
7.5	+ 7	5	22.6	34.35	15.43	+12	54.75	4.31	+ 2
8.5	+ 6	6	20.3	34.48	15.38	+ 9	54.79	4.30	+ 5
9.5	+ 2	+ 8	18.6	+34.62	+15.33	+ 3	54.81	−4.30	+ 8
10.5	− 3	9	17.1	34.76	15.29	− 5	54.82	4.30	+ 8
11.5	− 8	9	15.7	34.90	15.24	−13	54.80	4.30	+ 7
12.5	−11	8	14.0	35.03	15.19	−18	54.77	4.30	+ 4
13.5	−12	8	12.0	35.17	15.14	−20	54.73	4.30	0
14.5	−10	8	9.9	35.31	15.09	−17	54.69	4.30	− 4
15.5	− 5	+ 8	7.7	+35.45	+15.04	− 9	54.65	−4.30	− 7
16.5	+ 1	9	5.7	35.58	14.99	+ 1	54.63	4.31	− 9
17.5	+ 8	9	3.9	35.72	14.94	+12	54.64	4.31	− 8
18.5	+13	10	2.2	35.86	14.88	+21	54.66	4.31	− 5
19.5	+15	10	0.6	36.00	14.83	+25	54.69	4.32	− 1
20.5	+15	10	23.0	36.13	14.78	+25	54.73	4.32	+ 3
21.5	+12	+10	21.6	+36.27	+14.73	+20	54.75	−4.33	+ 6
22.5	+ 7	9	20.1	36.41	14.68	+12	54.77	4.33	+ 8
23.5	+ 2	8	18.6	36.55	14.62	+ 3	54.76	4.34	+ 8
24.5	− 3	7	16.8	36.68	14.57	− 5	54.74	4.35	+ 7
25.5	− 7	6	14.8	36.82	14.52	−12	54.70	4.35	+ 4
26.5	−10	6	12.7	36.96	14.47	−16	54.66	4.36	+ 1
27.5	−10	+ 7	10.9	+37.10	+14.41	−16	54.62	−4.37	− 2
28.5	− 9	8	9.5	37.24	14.36	−15	54.58	4.38	− 5
29.5	− 7	8	8.2	37.37	14.31	−11	54.55	4.39	− 7
30.5	− 3	8	7.2	37.51	14.26	− 6	54.53	4.40	− 7
Okt. 1.5	0	7	6.0	37.65	14.21	0	54.52	4.42	− 7
2.5	+ 3	6	4.5	37.79	14.16	+ 5	54.52	4.43	− 5
3.5	+ 6	+ 5	2.4	+37.92	+14.11	+10	54.54	−4.44	− 3
4.5	+ 7	4	23.4	38.06	14.06	+11	54.55	4.46	+ 1
5.5	+ 5	5	20.7	38.20	14.01	+ 9	54.57	4.47	+ 4
6.5	+ 2	7	18.8	38.34	13.96	+ 4	54.59	4.49	+ 7
7.5	− 2	8	17.3	38.47	13.91	− 4	54.58	4.50	+ 8
8.5	− 7	9	16.0	38.61	13.86	−12	54.56	4.52	+ 8
9.5	−11	+ 9	14.5	+38.75	+13.81	−18	54.52	−4.53	+ 5
10.5	−12	8	12.7	38.89	13.77	−20	54.46	4.55	+ 2
11.5	−11	8	10.7	39.02	13.72	−19	54.40	4.57	− 3
12.5	− 7	8	8.4	39.16	13.68	−12	54.34	4.59	− 6
13.5	− 1	8	6.3	39.30	13.64	− 1	54.30	4.61	− 8
14.5	+ 6	9	4.4	39.44	13.59	+10	54.28	4.63	− 8

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i	i
1919								
		s		h m		h m		
Okt. 14.5	0.7846	+3.243	1.3352	0 49.4	1.2787	4 30.9	0.8822	
15.5	0.7874	3.249	1.3361	0 49.5	1.2791	4 26.7	0.8793	
16.5	0.7901	3.255	1.3369	0 49.6	1.2796	4 22.5	0.8763	
17.5	0.7929	3.261	1.3378	0 49.8	1.2801	4 18.3	0.8731	
18.5	0.7956	3.267	1.3387	0 49.9	1.2806	4 14.1	0.8698	
19.5	0.7983	3.273	1.3396	0 50.0	1.2811	4 9.9	0.8662	
20.5	0.8011	+3.279	1.3404	0 50.2	1.2817	4 5.7	0.8625	
21.5	0.8038	3.285	1.3413	0 50.3	1.2822	4 1.5	0.8587	
22.5	0.8065	3.292	1.3422	0 50.4	1.2828	3 57.4	0.8547	
23.5	0.8093	3.298	1.3431	0 50.6	1.2834	3 53.2	0.8505	
24.5	0.8120	3.305	1.3440	0 50.7	1.2840	3 49.1	0.8461	
25.5	0.8148	3.311	1.3450	0 50.9	1.2846	3 44.9	0.8416	
26.5	0.8175	+3.318	1.3459	0 51.0	1.2852	3 40.8	0.8369	
27.5	0.8202	3.325	1.3468	0 51.2	1.2858	3 36.7	0.8319	
28.5	0.8230	3.332	1.3478	0 51.3	1.2864	3 32.6	0.8268	
29.5	0.8257	3.339	1.3488	0 51.5	1.2870	3 28.5	0.8215	
30.5	0.8284	3.346	1.3498	0 51.6	1.2877	3 24.4	0.8160	
31.5	0.8312	3.353	1.3508	0 51.8	1.2883	3 20.3	0.8103	
Nov. 1.5	0.8339	+3.360	1.3518	0 51.9	1.2890	3 16.2	0.8043	
2.5	0.8367	3.368	1.3528	0 52.1	1.2896	3 12.2	0.7982	
3.5	0.8394	3.375	1.3538	0 52.2	1.2903	3 8.1	0.7918	
4.5	0.8421	3.383	1.3548	0 52.4	1.2909	3 4.1	0.7852	
5.5	0.8449	3.390	1.3559	0 52.5	1.2916	3 0.0	0.7784	
6.5	0.8476	3.398	1.3569	0 52.7	1.2922	2 56.0	0.7713	
7.5	0.8503	+3.406	1.3580	0 52.8	1.2929	2 52.0	0.7640	
8.5	0.8531	3.414	1.3591	0 53.0	1.2935	2 48.0	0.7563	
9.5	0.8558	3.422	1.3602	0 53.1	1.2942	2 44.0	0.7483	
10.5	0.8586	3.430	1.3613	0 53.2	1.2949	2 40.0	0.7402	
11.5	0.8613	3.438	1.3624	0 53.4	1.2955	2 36.0	0.7317	
12.5	0.8640	3.446	1.3635	0 53.5	1.2961	2 32.1	0.7229	
13.5	0.8668	+3.455	1.3646	0 53.6	1.2968	2 28.1	0.7137	+5.173
14.5	0.8695	3.463	1.3658	0 53.8	1.2974	2 24.2	0.7043	5.062
15.5	0.8723	3.472	1.3669	0 53.9	1.2980	2 20.3	0.6945	4.949
16.5	0.8750	3.481	1.3680	0 54.0	1.2986	2 16.3	0.6844	4.835
17.5	0.8777	3.489	1.3691	0 54.1	1.2993	2 12.4	0.6738	4.719
18.5	0.8805	3.498	1.3703	0 54.2	1.2999	2 8.5	0.6629	4.601
19.5	0.8832	+3.507	1.3715	0 54.3	1.3004	2 4.6	0.6515	+4.482
20.5	0.8859	3.516	1.3726	0 54.5	1.3010	2 0.7	0.6396	4.361
21.5	0.8887	3.526	1.3738	0 54.6	1.3016	1 56.9	0.6274	4.240
22.5	0.8914	3.535	1.3750	0 54.6	1.3021	1 53.0	0.6145	4.116
23.5	0.8942	3.544	1.3762	0 54.7	1.3027	1 49.1	0.6012	3.992
24.5	0.8969	3.554	1.3774	0 54.8	1.3032	1 45.3	0.5873	3.866

Mittl. Zeit Greenwich	f′	g′	G′	Allgemeine Präzession seit 1919.0	Δψ	Δψ′	Wahre Schiefe	Δε	Δε′
1919	in 0.001	in 0.01				in 0.01	23° 26′		in 0.01
Okt. 14.5	+ 6	+ 9	4.4	+39.44	+13.59	+10	54.28	−4.63	− 8
15.5	+12	10	2.6	39.57	13.55	+19	54.28	4.65	− 6
16.5	+16	11	1.0	39.71	13.51	+26	54.29	4.67	− 3
17.5	+16	11	23.5	39.85	13.47	+27	54.31	4.69	+ 1
18.5	+14	11	22.1	39.99	13.43	+23	54.33	4.71	+ 5
19.5	+10	10	20.7	40.13	13.40	+16	54.33	4.73	+ 7
20.5	+ 4	+ 9	19.3	+40.26	+13.36	+ 7	54.31	−4.75	+ 8
21.5	− 1	7	17.6	40.40	13.33	− 2	54.28	4.78	+ 7
22.5	− 6	6	15.6	40.54	13.29	− 9	54.23	4.80	+ 5
23.5	− 9	6	13.3	40.68	13.26	−14	54.18	4.82	+ 2
24.5	−10	6	11.3	40.81	13.23	−16	54.12	4.85	− 1
25.5	− 9	7	9.7	40.95	13.20	−15	54.06	4.87	− 4
26.5	− 7	+ 8	8.5	+41.09	+13.17	−12	54.02	−4.90	− 6
27.5	− 4	8	7.4	41.23	13.15	− 7	53.98	4.92	− 7
28.5	− 1	7	6.3	41.36	13.12	− 1	53.96	4.95	− 7
29.5	+ 2	6	5.0	41.50	13.10	+ 4	53.94	4.97	− 6
30.5	+ 5	5	3.1	41.64	13.08	+ 8	53.94	5.00	− 3
31.5	+ 6	4	0.4	41.78	13.06	+10	53.94	5.02	0
Nov. 1.5	+ 5	+ 5	21.2	+41.91	+13.04	+ 9	53.95	−5.05	+ 3
2.5	+ 3	6	19.1	42.05	13.02	+ 4	53.95	5.08	+ 6
3.5	− 2	8	17.5	42.19	13.00	− 2	53.94	5.10	+ 8
4.5	− 7	9	16.1	42.33	12.99	−11	53.91	5.13	+ 8
5.5	−11	9	14.7	42.46	12.98	−18	53.87	5.16	+ 6
6.5	−13	9	13.2	42.60	12.97	−22	53.81	5.18	+ 3
7.5	−13	+ 9	11.4	+42.74	+12.96	−21	53.74	−5.21	− 1
8.5	−10	8	9.3	42.88	12.95	−16	53.67	5.24	− 5
9.5	− 4	8	7.1	43.01	12.94	− 6	53.61	5.26	− 8
10.5	+ 3	9	5.1	43.15	12.94	+ 5	53.58	5.29	− 9
11.5	+10	10	3.2	43.29	12.93	+16	53.56	5.32	− 7
12.5	+15	11	1.5	43.43	12.93	+25	53.57	5.34	− 4
13.5	+17	+11	0.0	+43.57	+12.93	+28	53.58	−5.37	0
14.5	+16	11	22.6	43.70	12.93	+26	53.60	5.40	+ 4
15.5	+12	10	21.3	43.84	12.94	+20	53.60	5.42	+ 7
16.5	+ 7	9	19.9	43.98	12.94	+11	53.58	5.45	+ 8
17.5	+ 1	8	18.4	44.12	12.95	+ 2	53.55	5.47	+ 8
18.5	− 4	6	16.6	44.25	12.96	− 6	53.50	5.50	+ 6
19.5	− 7	+ 6	14.2	+44.39	+12.96	−12	53.45	−5.53	+ 3
20.5	− 9	6	11.9	44.53	12.98	−15	53.39	5.55	0
21.5	− 9	7	10.1	44.67	12.99	−14	53.33	5.58	− 3
22.5	− 7	7	8.7	44.80	13.00	−12	53.28	5.60	− 6
23.5	− 5	8	7.5	44.94	13.02	− 7	53.24	5.63	− 7
24.5	− 1	7	6.4	45.08	13.04	− 2	53.22	5.65	− 7

Mittl. Zeit Greenwich	t	f	log g	G	log h	H	log i	i
1919		s		h m		h m		"
Nov. 24.5	0.8969	+3.554	1.3774	0 54.8	1.3032	1 45.3	0.5873	+3.866
25.5	0.8996	3.563	1.3786	0 54.9	1.3037	1 41.4	0.5726	3.738
26.5	0.9024	3.573	1.3798	0 55.0	1.3042	1 37.6	0.5575	3.610
27.5	0.9051	3.582	1.3810	0 55.0	1.3047	1 33.8	0.5417	3.481
28.5	0.9078	3.592	1.3822	0 55.1	1.3052	1 29.9	0.5250	3.350
29.5	0.9106	3.602	1.3834	0 55.2	1.3057	1 26.1	0.5076	3.218
30.5	0.9133	+3.612	1.3846	0 55.2	1.3061	1 22.3	0.4893	+3.085
Dez. 1.5	0.9161	3.622	1.3859	0 55.3	1.3065	1 18.5	0.4701	2.952
2.5	0.9188	3.632	1.3871	0 55.3	1.3070	1 14.7	0.4496	2.816
3.5	0.9215	3.642	1.3883	0 55.3	1.3074	1 10.9	0.4281	2.680
4.5	0.9243	3.652	1.3895	0 55.4	1.3077	1 7.1	0.4055	2.544
5.5	0.9270	3.662	1.3908	0 55.4	1.3081	1 3.4	0.3813	2.406
6.5	0.9297	+3.673	1.3920	0 55.4	1.3084	0 59.6	0.3556	+2.268
7.5	0.9325	3.683	1.3932	0 55.4	1.3088	0 55.8	0.3282	2.129
8.5	0.9352	3.693	1.3945	0 55.4	1.3091	0 52.0	0.2986	1.989
9.5	0.9380	3.704	1.3957	0 55.4	1.3093	0 48.3	0.2669	1.849
10.5	0.9407	3.714	1.3969	0 55.4	1.3096	0 44.5	0.2327	1.709
11.5	0.9434	3.725	1.3981	0 55.4	1.3098	0 40.8	0.1951	1.567
12.5	0.9462	+3.736	1.3993	0 55.3	1.3101	0 37.0	0.1535	+1.424
13.5	0.9489	3.746	1.4005	0 55.3	1.3103	0 33.3	0.1075	1.281
14.5	0.9516	3.757	1.4017	0 55.3	1.3104	0 29.5	0.0561	1.138
15.5	0.9544	3.768	1.4030	0 55.2	1.3106	0 25.8	9.9978	0.995
16.5	0.9571	3.778	1.4042	0 55.2	1.3107	0 22.0	9.9304	0.852
17.5	0.9599	3.789	1.4054	0 55.1	1.3108	0 18.3	9.8500	0.708
18.5	0.9626	+3.800	1.4066	0 55.1	1.3109	0 14.6	9.7513	+0.564
19.5	0.9653	3.810	1.4078	0 55.0	1.3110	0 10.8	9.6222	0.419
20.5	0.9681	3.821	1.4090	0 54.9	1.3111	0 7.1	9.4378	0.274
21.5	0.9708	3.832	1.4102	0 54.9	1.3111	0 3.3	9.1106	+0.129
22.5	0.9736	3.843	1.4114	0 54.8	1.3111	23 59.6	8.1761_n	−0.015
23.5	0.9763	3.854	1.4125	0 54.7	1.3111	23 55.9	9.2041_n	0.160
24.5	0.9790	+3.864	1.4137	0 54.6	1.3111	23 52.1	9.4843_n	−0.305
25.5	0.9818	3.875	1.4149	0 54.5	1.3110	23 48.4	9.6532_n	0.450
26.5	0.9845	3.886	1.4160	0 54.4	1.3109	23 44.6	9.7738_n	0.594
27.5	0.9872	3.896	1.4172	0 54.3	1.3108	23 40.9	9.8681_n	0.738
28.5	0.9900	3.907	1.4183	0 54.2	1.3107	23 37.2	9.9455_n	0.882
29.5	0.9927	3.918	1.4195	0 54.0	1.3106	23 33.4	0.0111_n	1.026
30.5	0.9955	+3.928	1.4206	0 53.9	1.3104	23 29.7	0.0682_n	−1.170
31.5	0.9982	3.939	1.4217	0 53.8	1.3102	23 25.9	0.1186_n	1.314
32.5	1.0009	3.950	1.4228	0 53.6	1.3100	23 22.1	0.1635_n	1.457
33.5	1.0037	3.961	1.4239	0 53.5	1.3098	23 18.4	0.2038_n	1.599
34.5	1.0064	3.971	1.4250	0 53.4	1.3095	23 14.6	0.2405_n	1.740
35.5	1.0091	3.982	1.4261	0 53.2	1.3093	23 10.8	0.2744_n	1.881

Mittl. Zeit Greenwich	f'	g'	G'	Allgemeine Präzession seit 1919.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$
1919	in 0.ˢ001	in 0.″01				in 0.″01	23° 26′		in 0.″01
Nov. 24.5	− 1	+ 7	6.ʰ4	+45.″08	+13.″04	− 2	53.″22	−5.″65	− 7
25.5	+ 2	7	5.2	45.22	13.05	+ 3	53.20	5.67	− 6
26.5	+ 5	5	3.7	45.35	13.07	+ 8	53.20	5.70	− 4
27.5	+ 6	4	1.3	45.49	13.09	+10	53.20	5.72	− 1
28.5	+ 6	5	22.2	45.63	13.12	+10	53.21	5.74	+ 2
29.5	+ 4	6	19.7	45.77	13.14	+ 6	53.22	5.76	+ 5
30.5	0	+ 7	17.9	+45.90	+13.16	0	53.22	−5.78	+ 7
Dez. 1.5	− 5	9	16.5	46.04	13.19	− 9	53.21	5.81	+ 8
2.5	−10	10	15.1	46.18	13.22	−17	53.17	5.83	+ 7
3.5	−14	10	13.6	46.32	13.24	−22	53.12	5.85	+ 4
4.5	−15	10	12.1	46.46	13.27	−24	53.06	5.87	0
5.5	−12	9	10.2	46.59	13.30	−20	53.00	5.88	− 4
6.5	− 7	+ 9	8.2	+46.73	+13.33	−12	52.95	−5.90	− 7
7.5	0	9	6.1	46.87	13.37	− 1	52.92	5.92	− 9
8.5	+ 7	9	4.0	47.01	13.40	+11	52.90	5.94	− 8
9.5	+13	10	2.2	47.14	13.43	+21	52.91	5.95	− 5
10.5	+16	11	0.5	47.28	13.47	+27	52.93	5.97	− 1
11.5	+16	11	23.1	47.42	13.50	+27	52.96	5.98	+ 3
12.5	+14	+11	21.8	+47.56	+13.54	+23	52.98	−6.00	+ 6
13.5	+ 9	10	20.5	47.69	13.57	+15	52.98	6.01	+ 8
14.5	+ 4	8	19.1	47.83	13.61	+ 6	52.97	6.03	+ 8
15.5	− 2	7	17.4	47.97	13.65	− 3	52.94	6.04	+ 7
16.5	− 6	6	15.2	48.11	13.68	− 9	52.90	6.05	+ 4
17.5	− 8	5	12.6	48.24	13.72	−13	52.86	6.06	+ 1
18.5	− 8	+ 6	10.5	+48.38	+13.76	−14	52.81	−6.07	− 2
19.5	− 7	7	8.9	48.52	13.80	−12	52.78	6.08	− 5
20.5	− 5	7	7.7	48.66	13.84	− 8	52.75	6.09	− 7
21.5	− 2	7	6.6	48.79	13.88	− 3	52.74	6.10	− 7
22.5	+ 2	7	5.4	48.93	13.92	+ 3	52.73	6.10	− 7
23.5	+ 5	6	3.9	49.07	13.95	+ 8	52.74	6.11	− 5
24.5	+ 7	+ 5	2.0	+49.21	+13.99	+11	52.76	−6.12	− 2
25.5	+ 7	5	23.2	49.34	14.03	+11	52.79	6.12	+ 1
26.5	+ 5	5	20.6	49.48	14.07	+ 9	52.81	6.13	+ 4
27.5	+ 2	7	18.7	49.62	14.11	+ 3	52.83	6.13	+ 7
28.5	− 3	8	17.0	49.76	14.15	− 5	52.84	6.13	+ 8
29.5	− 9	9	15.5	49.90	14.18	−14	52.83	6.14	+ 7
30.5	−13	+10	14.1	+50.03	+14.22	−21	52.81	−6.14	+ 5
31.5	−15	10	12.6	50.17	14.26	−24	52.77	6.14	+ 2
32.5	−14	10	10.9	50.31	14.30	−23	52.72	6.14	− 3
33.5	−10	9	9.1	50.45	14.33	−17	52.69	6.14	− 6
34.5	− 4	9	7.2	50.58	14.37	− 7	52.67	6.14	− 8
35.5	+ 3	9	5.1	50.72	14.40	+ 5	52.67	6.14	− 8

Reductionsgrößen 1919

für 12h Sternzeit Greenwich

Mittlere Zeit Greenwich		t	A		A′	B		B′	C		D	
1919						″			″		″	
Jan.	0.723	−0.0005	+0.33521	354	− 85	+3.356	1	+81	− 3.181	328	+20.174	65
	1.720	+0.0022	0.33875	352	+ 70	3.357	1	+72	3.509	327	20.109	71
	2.717	0.0049	0.34227	352	+204	3.358	0	+48	3.836	325	20.038	77
	3.715	0.0077	0.34579	350	+285	3.358	0	+12	4.161	324	19.961	83
	4.712	0.0104	0.34929	349	+288	3.358	1	−27	4.485	324	19.878	91
	5.709	0.0131	0.35278	347	+206	3.357	2	−62	4.809	321	19.787	96
	6.706	0.0159	+0.35625	345	+ 57	+3.355	2	−84	− 5.130	319	+19.691	102
	7.704	0.0186	0.35970	343	−125	3.353	3	−86	5.449	318	19.589	108
	8.701	0.0213	0.36313	341	−292	3.350	4	−68	5.767	316	19.481	114
	9.698	0.0240	0.36654	340	−400	3.346	4	−32	6.083	315	19.367	121
	10.695	0.0268	0.36994	338	−410	3.342	5	+12	6.398	312	19.246	127
	11.693	0.0295	0.37332	335	−316	3.337	6	+54	6.710	310	19.119	133
	12.690	0.0322	+0.37667	333	−142	+3.331	6	+82	− 7.020	308	+18.986	139
	13.687	0.0350	0.38000	331	+ 78	3.325	6	+92	7.328	305	18.847	144
	14.684	0.0377	0.38331	328	+286	3.319	6	+77	7.633	303	18.703	150
	15.682	0.0404	0.38659	325	+442	3.313	7	+48	7.936	300	18.553	156
	16.679	0.0432	0.38984	323	+511	3.306	8	+ 9	8.236	298	18.397	162
	17.676	0.0459	0.39307	321	+488	3.298	8	−31	8.534	295	18.235	168
	18.674	0.0486	+0.39628	317	+382	+3.290	9	−62	− 8.829	292	+18.067	174
	19.671	0.0513	0.39945	315	+225	3.281	9	−79	9.121	289	17.893	179
	20.668	0.0541	0.40260	311	+ 43	3.272	9	−82	9.410	287	17.714	185
	21.665	0.0568	0.40571	309	−127	3.263	10	−69	9.697	284	17.529	190
	22.663	0.0595	0.40880	306	−265	3.253	10	−46	9.981	279	17.339	195
	23.660	0.0623	0.41186	304	−357	3.243	10	−16	10.260	277	17.144	200
	24.657	0.0650	+0.41490	300	−390	+3.233	10	+16	−10.537	274	+16.944	206
	25.654	0.0677	0.41790	297	−364	3.223	10	+46	10.811	269	16.738	211
	26.652	0.0705	0.42087	294	−282	3.213	11	+68	11.080	267	16.527	216
	27.649	0.0732	0.42381	291	−154	3.202	11	+80	11.347	263	16.311	222
	28.646	0.0759	0.42672	288	− 3	3.191	11	+75	11.610	258	16.089	226
	29.644	0.0787	0.42960	285	+144	3.180	12	+58	11.868	256	15.863	231
	30.641	0.0814	+0.43245	281	+251	+3.168	11	+27	−12.124	252	+15.632	236
	31.638	0.0841	0.43526	277	+293	3.157	12	−11	12.376	247	15.396	241
Febr.	1.635	0.0868	0.43803	275	+256	3.145	12	−49	12.623	243	15.155	245
	2.633	0.0896	0.44078	271	+138	3.133	12	−77	12.866	240	14.910	249
	3.630	0.0923	0.44349	268	− 28	3.121	12	−89	13.106	235	14.661	254
	4.627	0.0950	0.44617	265	−202	3.109	11	−77	13.341	232	14.407	259
	5.624	0.0978	+0.44882	262	−335	+3.098	12	−49	−13.573	227	+14.148	264
	6.622	0.1005	0.45144	259	−386	3.086	11	− 6	13.800	222	13.884	267
	7.619	0.1032	0.45403	255	−337	3.075	12	+38	14.022	218	13.617	271
	8.616	0.1060	0.45658	252	−197	3.063	11	+73	14.240	213	13.346	276
	9.614	0.1087	0.45910	249	+ 3	3.052	11	+92	14.453	209	13.070	281
	10.611	0.1114	0.46159		+215	3.041		+87	14.662		12.789	

für 12^h Sternzeit Greenwich

Mittlere Zeit Greenwich	*t*	*A*		*A'*	*B*		*B'*	*C*		*D*	
1919											
Febr. 10.611	0.1114	+0.46159	245	+215	+3.041	11	+87	−14.662	204	+12.789	283
11.608	0.1141	0.46404	243	+391	3.030	11	+63	14.866	200	12.506	286
12.605	0.1169	0.46647	239	+492	3.019	11	+26	15.066	195	12.220	290
13.603	0.1196	0.46886	236	+504	3.008	11	−16	15.261	190	11.930	295
14.600	0.1223	0.47122	233	+426	2.997	11	−51	15.451	185	11.635	298
15.597	0.1251	0.47355	230	+281	2.986	10	−75	15.636	181	11.337	302
16.594	0.1278	+0.47585	227	+106	+2.976	9	−84	−15.817	175	+11.035	304
17.592	0.1305	0.47812	225	− 73	2.967	10	−76	15.992	170	10.731	307
18.589	0.1333	0.48037	222	−225	2.957	9	−55	16.162	166	10.424	311
19.586	0.1360	0.48259	218	−334	2.948	9	−28	16.328	160	10.113	314
20.583	0.1387	0.48477	216	−390	2.939	8	+ 5	16.488	155	9.799	317
21.581	0.1415	0.48693	213	−386	2.931	8	+35	16.643	150	9.482	319
22.578	0.1442	+0.48906	211	−329	+2.923	8	+59	−16.793	145	+ 9.163	322
23.575	0.1469	0.49117	208	−221	2.915	7	+75	16.938	139	8.841	324
24.573	0.1496	0.49325	206	− 82	2.908	7	+78	17.077	134	8.517	328
25.570	0.1524	0.49531	204	+ 63	2.901	6	+66	17.211	129	8.189	329
26.567	0.1551	0.49735	201	+187	2.895	5	+40	17.340	124	7.860	332
27.564	0.1578	0.49936	199	+258	2.890	5	+ 5	17.464	118	7.528	333
28.562	0.1606	+0.50135	196	+256	+2.885	5	−34	−17.582	112	+ 7.195	336
März 1.559	0.1633	0.50331	195	+176	2.880	5	−67	17.694	107	6.859	338
2.556	0.1660	0.50526	193	+ 34	2.875	4	−86	17.801	102	6.521	339
3.553	0.1688	0.50719	191	−133	2.871	3	−84	17.903	96	6.182	342
4.551	0.1715	0.50910	189	−279	2.868	2	−61	17.999	90	5.840	343
5.548	0.1742	0.51099	187	−358	2.866	2	−24	18.089	85	5.497	343
6.545	0.1769	+0.51286	186	−346	+2.864	2	+20	−18.174	80	+ 5.154	346
7.543	0.1797	0.51472	184	−236	2.862	1	+61	18.254	74	4.808	348
8.540	0.1824	0.51656	183	− 55	2.861	0	+86	18.328	68	4.460	348
9.537	0.1851	0.51839	182	+158	2.861	0	+90	18.396	63	4.112	348
10.534	0.1879	0.52021	180	+352	2.861	1	+74	18.459	58	3.764	351
11.532	0.1906	0.52201	179	+484	2.862	2	+42	18.517	52	3.413	351
12.529	0.1933	+0.52380	179	+527	+2.864	3	+ 1	−18.569	46	+ 3.062	352
13.526	0.1961	0.52559	177	+478	2.867	3	−38	18.615	40	2.710	352
14.523	0.1988	0.52736	177	+354	2.870	3	−67	18.655	34	2.358	353
15.521	0.2015	0.52913	176	+183	2.873	5	−82	18.689	29	2.005	354
16.518	0.2043	0.53089	176	− 1	2.878	5	−80	18.718	23	1.651	353
17.515	0.2070	0.53265	175	−166	2.883	5	−65	18.741	18	1.298	354
18.512	0.2097	+0.53440	175	−294	+2.888	6	−39	−18.759	12	+ 0.944	354
19.510	0.2124	0.53615	175	−368	2.894	7	− 9	18.771	7	0.590	354
20.507	0.2152	0.53790	174	−389	2.901	8	+23	18.778	1	+ 0.236	354
21.504	0.2179	0.53964	175	−354	2.909	8	+50	18.779	−4	− 0.118	353
22.502	0.2206	0.54139	174	−269	2.917	9	+70	18.775	10	0.471	353
23.499	0.2234	0.54313		−147	2.926		+78	18.765		0.824	

Reduktionsgrößen 1919

für 12^h Sternzeit Greenwich

Mittlere Zeit Greenwich	t	A		A'	B		B'	C		D	
1919											
März 23.499	0.2234	+0.54313	174	−147	+2.926	10	+78	−18.765	16	−0.824	353
24.496	0.2261	0.54487	175	−10	2.936	10	+72	18.749	22	1.177	352
25.493	0.2288	0.54662	175	+118	2.946	11	+51	18.727	27	1.529	351
26.491	0.2316	0.54837	176	+207	2.957	11	+19	18.700	33	1.880	351
27.488	0.2343	0.55013	176	+230	2.968	12	−18	18.667	38	2.231	351
28.485	0.2370	0.55189	177	+180	2.980	13	−56	18.629	43	2.582	348
29.482	0.2397	+0.55366	178	+60	+2.993	14	−80	−18.586	49	−2.930	348
30.480	0.2425	0.55544	179	−96	3.007	14	−87	18.537	55	3.278	346
31.477	0.2452	0.55723	180	−250	3.021	14	−72	18.482	60	3.624	346
April 1.474	0.2479	0.55903	181	−354	3.035	15	−41	18.422	65	3.970	345
2.472	0.2507	0.56084	182	−374	3.050	16	+4	18.357	70	4.315	342
3.469	0.2534	0.56266	183	−292	3.066	17	+46	18.287	76	4.657	340
4.466	0.2561	+0.56449	184	−128	+3.083	17	+77	−18.211	82	−4.997	340
5.463	0.2589	0.56633	186	+88	3.100	17	+91	18.129	86	5.337	338
6.461	0.2616	0.56819	188	+302	3.117	18	+84	18.043	92	5.675	336
7.458	0.2643	0.57007	189	+467	3.135	19	+57	17.951	97	6.011	333
8.455	0.2670	0.57196	191	+549	3.154	19	+17	17.854	102	6.344	332
9.452	0.2698	0.57387	193	+537	3.173	20	−24	17.752	107	6.676	330
10.450	0.2725	+0.57580	195	+434	+3.193	20	−58	−17.645	112	−7.006	327
11.447	0.2752	0.57775	196	+276	3.213	21	−79	17.533	117	7.333	325
12.444	0.2780	0.57971	198	+91	3.234	21	−84	17.416	122	7.658	322
13.442	0.2807	0.58169	201	−87	3.255	22	−72	17.294	128	7.980	320
14.439	0.2834	0.58370	203	−234	3.277	21	−48	17.166	132	8.300	318
15.436	0.2862	0.58573	205	−328	3.298	22	−19	17.034	137	8.618	315
16.433	0.2889	+0.58778	207	−371	+3.320	23	+12	−16.897	142	−8.933	312
17.431	0.2916	0.58985	209	−355	3.343	23	+42	16.755	146	9.245	310
18.428	0.2944	0.59194	212	−289	3.366	24	+64	16.609	152	9.555	306
19.425	0.2971	0.59406	214	−184	3.390	24	+78	16.457	156	9.861	303
20.422	0.2998	0.59620	216	−56	3.414	24	+75	16.301	161	10.164	300
21.420	0.3025	0.59836	219	+71	3.438	25	+61	16.140	166	10.464	297
22.417	0.3053	+0.60055	222	+170	+3.463	25	+33	−15.974	169	−10.761	295
23.414	0.3080	0.60277	224	+213	3.488	25	−3	15.805	174	11.056	290
24.411	0.3107	0.60501	227	+183	3.513	25	−41	15.631	179	11.346	287
25.409	0.3135	0.60728	229	+83	3.538	25	−69	15.452	182	11.633	284
26.406	0.3162	0.60957	232	−68	3.563	25	−85	15.270	187	11.917	279
27.403	0.3189	0.61189	234	−229	3.588	26	−81	15.083	192	12.196	277
28.401	0.3217	+0.61423	238	−358	+3.614	26	−55	−14.891	196	−12.473	273
29.398	0.3244	0.61661	240	−411	3.640	26	−17	14.695	200	12.746	269
30.395	0.3271	0.61901	243	−370	3.666	26	+27	14.495	203	13.015	264
Mai 1.392	0.3298	0.62144	246	−227	3.692	26	+65	14.292	208	13.279	261
2.390	0.3326	0.62390	248	−21	3.718	26	+87	14.084	212	13.540	257
3.387	0.3353	0.62638		+209	3.744		+88	13.872		13.797	

Reduktionsgrößen 1919

für 12^h Sternzeit Greenwich

Mittlere Zeit Greenwich		t	A		A'	B		B'	C		D	
1919												
Mai	3.387	0.3353	+0.62638	251	+209	+3.744	26	+88	−13.872	215	−13.797	254
	4.384	0.3380	0.62889	254	+408	3.770	26	+68	13.657	219	14.051	249
	5.381	0.3408	0.63143	257	+536	3.796	27	+33	13.438	224	14.300	244
	6.379	0.3435	0.63400	260	+571	3.823	27	− 8	13.214	226	14.544	241
	7.376	0.3462	0.63660	262	+505	3.850	26	−45	12.988	230	14.785	236
	8.373	0.3490	0.63922	265	+367	3.876	26	−73	12.758	233	15.021	232
	9.371	0.3517	+0.64187	267	+187	+3.902	26	−82	−12.525	238	−15.253	228
	10.368	0.3544	0.64454	271	+ 1	3.928	26	−78	12.287	240	15.481	223
	11.365	0.3572	0.64725	273	−160	3.954	26	−59	12.047	244	15.704	218
	12.362	0.3599	0.64998	276	−278	3.980	26	−32	11.803	247	15.922	213
	13.360	0.3626	0.65274	278	−340	4.006	26	+ 1	11.556	250	16.135	210
	14.357	0.3653	0.65552	281	−343	4.032	26	+31	11.306	254	16.345	204
	15.354	0.3681	+0.65833	283	−296	+4.058	25	+56	−11.052	256	−16.549	200
	16.351	0.3708	0.66116	287	−203	4.083	25	+74	10.796	259	16.749	195
	17.349	0.3735	0.66403	289	− 81	4.108	24	+77	10.537	262	16.944	190
	18.346	0.3763	0.66692	292	+ 46	4.132	25	+68	10.275	265	17.134	185
	19.343	0.3790	0.66984	294	+153	4.157	24	+45	10.010	267	17.319	181
	20.341	0.3817	0.67278	296	+216	4.181	24	+12	9.743	271	17.500	175
	21.338	0.3845	+0.67574	298	+208	+4.205	24	−25	− 9.472	272	−17.675	171
	22.335	0.3872	0.67872	301	+128	4.229	23	−60	9.200	276	17.846	165
	23.332	0.3899	0.68173	303	− 14	4.252	22	−81	8.924	277	18.011	160
	24.330	0.3926	0.68476	305	−184	4.274	23	−85	8.647	280	18.171	155
	25.327	0.3954	0.68781	308	−340	4.297	22	−68	8.367	281	18.326	150
	26.324	0.3981	0.69089	309	−435	4.319	22	−35	8.086	285	18.476	144
	27.321	0.4008	+0.69398	312	−439	+4.341	21	+ 9	− 7.801	287	−18.620	140
	28.319	0.4036	0.69710	314	−338	4.362	21	+50	7.514	288	18.760	134
	29.316	0.4063	0.70024	315	−152	4.383	21	+79	7.226	290	18.894	129
	30.313	0.4090	0.70339	318	+ 78	4.404	20	+90	6.936	292	19.023	123
	31.310	0.4118	0.70657	319	+305	4.424	20	+77	6.644	294	19.146	118
Juni	1.308	0.4145	0.70976	320	+475	4.444	20	+49	6.350	296	19.264	113
	2.305	0.4172	+0.71296	322	+558	+4.464	19	+ 8	− 6.054	296	−19.377	107
	3.302	0.4200	0.71618	324	+540	4.483	18	−31	5.758	299	19.484	102
	4.300	0.4227	0.71942	325	+435	4.501	18	−64	5.459	300	19.586	96
	5.297	0.4254	0.72267	327	+271	4.519	17	−79	5.159	302	19.682	91
	6.294	0.4281	0.72594	328	+ 87	4.536	17	−81	4.857	303	19.773	86
	7.291	0.4309	0.72922	329	− 86	4.553	16	−67	4.554	303	19.859	80
	8.289	0.4336	+0.73251	331	−223	+4.569	15	−41	− 4.251	305	−19.939	74
	9.286	0.4363	0.73582	331	−304	4.584	15	−11	3.946	307	20.013	69
	10.283	0.4391	0.73913	332	−329	4.599	15	+20	3.639	307	20.082	63
	11.280	0.4418	0.74245	333	−298	4.614	14	+48	3.332	307	20.145	58
	12.278	0.4445	0.74578	334	−221	4.628	13	+68	3.025	308	20.203	52
	13.275	0.4473	0.74912		−108	4.641		+76	2.717		20.255	

Reduktionsgrößen 1919

für 12^h Sternzeit Greenwich

Mittlere Zeit Greenwich	t	A	Δ	A'	B	Δ	B'	C	Δ	D	Δ
1919											
Juni 13.275	0.4473	+0.74912	335	−108	+4.641	13	+76	−2.717	310	−20.255	47
14.272	0.4500	0.75247	336	+ 21	4.654	12	+71	2.407	310	20.302	41
15.270	0.4527	0.75583	336	+138	4.666	11	+55	2.097	310	20.343	35
16.267	0.4554	0.75919	337	+223	4.677	11	+25	1.787	311	20.378	29
17.264	0.4582	0.76256	337	+244	4.688	11	−10	1.476	312	20.407	24
18.261	0.4609	0.76593	337	+192	4.699	10	−46	1.164	311	20.431	18
19.259	0.4636	+0.76930	337	+ 69	+4.709	9	−74	−0.853	312	−20.449	12
20.256	0.4664	0.77267	337	− 99	4.718	8	−86	0.541	312	20.461	7
21.253	0.4691	0.77604	337	−275	4.726	8	−76	−0.229	312	20.468	2
22.250	0.4718	0.77941	337	−410	4.734	8	−51	+0.083	311	20.470	4
23.248	0.4746	0.78278	337	−463	4.742	7	− 9	0.394	312	20.466	10
24.245	0.4773	0.78615	337	−414	4.749	6	+33	0.706	311	20.456	15
25.242	0.4800	+0.78952	337	−269	+4.755	6	+69	+1.017	311	−20.441	22
26.239	0.4828	0.79289	337	− 55	4.761	5	+88	1.328	311	20.419	27
27.237	0.4855	0.79626	336	+177	4.766	5	+85	1.639	310	20.392	32
28.234	0.4882	0.79962	336	+377	4.771	4	+64	1.949	310	20.360	38
29.231	0.4909	0.80298	334	+504	4.775	3	+25	2.259	309	20.322	44
30.229	0.4937	0.80632	334	+533	4.778	2	−15	2.568	309	20.278	49
Juli 1.226	0.4964	+0.80966	333	+464	+4.780	2	−51	+2.877	307	−20.229	55
2.223	0.4991	0.81299	332	+328	4.782	1	−77	3.184	307	20.174	61
3.220	0.5019	0.81631	332	+153	4.783	1	−82	3.491	305	20.113	66
4.218	0.5046	0.81963	330	− 24	4.784	1	−75	3.796	305	20.047	71
5.215	0.5073	0.82293	329	−173	4.785	0	−53	4.101	304	19.976	77
6.212	0.5101	0.82622	327	−274	4.785	0	−23	4.405	302	19.899	82
7.209	0.5128	+0.82949	326	−318	+4.785	2	+ 8	+4.707	301	−19.817	88
8.207	0.5155	0.83275	325	−307	4.783	2	+37	5.008	299	19.729	93
9.204	0.5182	0.83600	324	−244	4.781	3	+60	5.307	299	19.636	99
10.201	0.5210	0.83924	322	−144	4.778	3	+73	5.606	296	19.537	104
11.199	0.5237	0.84246	320	− 19	4.775	3	+75	5.902	295	19.433	110
12.196	0.5264	0.84566	318	+108	4.772	3	+63	6.197	293	19.323	115
13.193	0.5292	+0.84884	317	+209	+4.769	4	+39	+6.490	292	−19.208	120
14.190	0.5319	0.85201	315	+262	4.765	4	+ 5	6.782	290	19.088	125
15.188	0.5346	0.85516	312	+245	4.761	5	−32	7.072	288	18.963	130
16.185	0.5374	0.85828	311	+153	4.756	5	−62	7.360	286	18.833	136
17.182	0.5401	0.86139	309	+ 1	4.751	6	−81	7.646	284	18.697	141
18.179	0.5428	0.86448	307	−176	4.745	7	−81	7.930	281	18.556	146
19.177	0.5456	+0.86755	305	−337	+4.738	7	−62	+8.211	279	−18.410	152
20.174	0.5483	0.87060	303	−431	4.731	7	−27	8.490	278	18.258	156
21.171	0.5510	0.87363	301	−435	4.724	7	+16	8.768	274	18.102	161
22.169	0.5537	0.87664	298	−337	4.717	8	+55	9.042	273	17.941	166
23.166	0.5565	0.87962	296	−157	4.709	8	+82	9.315	269	17.775	171
24.163	0.5592	0.88258		+ 66	4.701		+88	9.584		17.604	

Reduktionsgrößen 1919

für 12^h Sternzeit Greenwich

Mittlere Zeit Greenwich	*t*	*A*		*A'*	*B*		*B'*	*C*		*D*	
1919											
Juli 24.163	0.5592	+0.88258	293	+ 66	+4.701	9	+88	+ 9.584	268	−17.604	176
25.160	0.5619	0.88551	291	+278	4.692	9	+74	9.852	264	17.428	181
26.158	0.5647	0.88842	289	+434	4.683	9	+42	10.116	262	17.247	187
27.155	0.5674	0.89131	286	+503	4.674	9	+ 1	10.378	258	17.060	190
28.152	0.5701	0.89417	283	+474	4.665	10	−38	10.636	257	16.870	195
29.149	0.5729	0.89700	281	+364	4.655	9	−69	10.893	253	16.675	200
30.147	0.5756	+0.89981	278	+203	+4.646	10	−82	+11.146	250	−16.475	205
31.144	0.5783	0.90259	275	+ 28	4.636	10	−79	11.396	247	16.270	209
Aug. 1.141	0.5810	0.90534	273	−130	4.626	11	−62	11.643	243	16.061	213
2.138	0.5838	0.90807	270	−248	4.615	10	−35	11.886	241	15.848	218
3.136	0.5865	0.91077	268	−312	4.605	11	− 3	12.127	238	15.630	223
4.133	0.5892	0.91345	265	−320	4.594	10	+27	12.365	233	15.407	227
5.130	0.5920	+0.91610	262	−277	+4.584	11	+53	+12.598	231	−15.180	231
6.128	0.5947	0.91872	259	−187	4.573	10	+70	12.829	227	14.949	235
7.125	0.5974	0.92131	256	− 72	4.563	11	+76	13.056	223	14.714	240
8.122	0.6002	0.92387	254	+ 54	4.552	10	+69	13.279	220	14.474	244
9.119	0.6029	0.92641	251	+169	4.542	11	+48	13.499	216	14.230	247
10.117	0.6056	0.92892	248	+244	4.531	11	+19	13.715	212	13.983	251
11.114	0.6083	+0.93140	245	+260	+4.520	11	−16	+13.927	208	−13.732	256
12.111	0.6111	0.93385	243	+207	4.509	11	−52	14.135	205	13.476	259
13.108	0.6138	0.93628	240	+ 84	4.498	10	−75	14.340	201	13.217	264
14.106	0.6165	0.93868	237	− 81	4.488	11	−84	14.541	197	12.953	266
15.103	0.6193	0.94105	234	−247	4.477	10	−73	14.738	192	12.687	270
16.100	0.6220	0.94339	232	−370	4.467	10	−44	14.930	189	12.417	275
17.098	0.6247	+0.94571	229	−414	+4.457	10	− 2	+15.119	184	−12.142	277
18.095	0.6275	0.94800	226	−361	4.447	10	+39	15.303	181	11.865	281
19.092	0.6302	0.95026	224	−214	4.437	9	+72	15.484	176	11.584	285
20.089	0.6329	0.95250	221	− 11	4.428	10	+88	15.660	171	11.299	287
21.087	0.6357	0.95471	218	+204	4.418	9	+82	15.831	167	11.012	291
22.084	0.6384	0.95689	216	+380	4.409	9	+56	15.998	162	10.721	295
23.081	0.6411	+0.95905	214	+481	+4.400	8	+18	+16.160	159	−10.426	297
24.078	0.6438	0.96119	211	+486	4.392	8	−23	16.319	154	10.129	300
25.076	0.6466	0.96330	208	+402	4.384	8	−57	16.473	149	9.829	302
26.073	0.6493	0.96538	207	+255	4.376	8	−78	16.622	145	9.527	306
27.070	0.6520	0.96745	204	+ 82	4.368	8	−82	16.767	140	9.221	309
28.068	0.6548	0.96949	202	− 88	4.360	7	−70	16.907	135	8.912	312
29.065	0.6575	+0.97151	199	−221	+4.353	6	−46	+17.042	129	− 8.600	313
30.062	0.6602	0.97350	197	−303	4.347	6	−17	17.171	126	8.287	317
31.059	0.6630	0.97547	195	−329	4.341	6	+15	17.297	120	7.970	318
Sept. 1.057	0.6657	0.97742	193	−302	4.335	6	+43	17.417	116	7.652	321
2.054	0.6684	0.97935	192	−233	4.329	5	+63	17.533	111	7.331	323
3.051	0.6711	0.98127		−130	4.324		+73	17.644		7.008	

Reduktionsgrößen 1919

für 12ʰ Sternzeit Greenwich

Mittlere Zeit Greenwich	*t*	*A*		*A'*	*B*		*B'*	*C*		*D*	
1919											
Sept. 3.051	0.6711	+0.98127	189	−130	+4.324	5	+73	+17.644	106	−7.008	325
4.048	0.6739	0.98316	188	− 9	4.319	4	+72	17.750	101	6.683	328
5.046	0.6766	0.98504	185	+110	4.315	3	+57	17.851	96	6.355	329
6.043	0.6793	0.98689	184	+200	4.312	3	+32	17.947	91	6.026	332
7.040	0.6821	0.98873	183	+241	4.309	2	− 2	18.038	86	5.694	333
8.037	0.6848	0.99056	181	+215	4.307	2	−37	18.124	80	5.361	334
9.035	0.6875	+0.99237	180	+126	+4.305	2	−66	+18.204	76	−5.027	337
10.032	0.6903	0.99417	178	− 18	4.303	1	−81	18.280	70	4.690	338
11.029	0.6930	0.99595	177	−179	4.302	1	−78	18.350	65	4.352	339
12.027	0.6957	0.99772	175	−318	4.301	0	−57	18.415	59	4.013	341
13.024	0.6985	0.99947	175	−389	4.301	1	−19	18.474	55	3.672	342
14.021	0.7012	1.00122	174	−372	4.302	1	+23	18.529	49	3.330	343
15.018	0.7039	+1.00296	173	−258	+4.303	2	+61	+18.578	44	−2.987	343
16.016	0.7066	1.00469	172	− 71	4.305	3	+85	18.622	39	2.644	346
17.013	0.7094	1.00641	171	+146	4.308	3	+88	18.661	33	2.298	346
18.010	0.7121	1.00812	171	+341	4.311	4	+69	18.694	27	1.952	346
19.007	0.7148	1.00983	170	+471	4.315	4	+34	18.721	22	1.606	348
20.005	0.7176	1.01153	170	+511	4.319	5	− 6	18.743	17	1.258	348
21.002	0.7203	+1.01323	169	+456	+4.324	6	−44	+18.760	12	−0.910	348
21.999	0.7230	1.01492	169	+326	4.330	7	−73	18.772	6	0.562	349
22.997	0.7258	1.01661	169	+153	4.337	7	−82	18.778	1	−0.213	349
23.994	0.7285	1.01830	169	− 24	4.344	7	−77	18.779	−5	+0.136	349
24.991	0.7312	1.01999	169	−176	4.351	9	−58	18.774	10	0.485	349
25.988	0.7339	1.02168	170	−280	4.360	9	−29	18.764	16	0.834	349
26.986	0.7367	+1.02338	170	−326	+4.369	9	+ 4	+18.748	21	+1.183	349
27.983	0.7394	1.02508	170	−317	4.378	10	+34	18.727	27	1.532	349
28.980	0.7421	1.02678	171	−265	4.388	11	+58	18.700	32	1.881	348
29.977	0.7449	1.02849	171	−171	4.399	12	+71	18.668	38	2.229	348
30.975	0.7476	1.03020	172	− 62	4.411	12	+74	18.630	43	2.577	347
Okt. 1.972	0.7503	1.03192	172	+ 54	4.423	13	+64	18.587	49	2.924	347
2.969	0.7531	+1.03364	174	+150	+4.436	13	+42	+18.538	54	+3.271	345
3.966	0.7558	1.03538	174	+207	4.449	14	+12	18.484	60	3.616	345
4.964	0.7585	1.03712	175	+203	4.463	15	−23	18.424	65	3.961	345
5.961	0.7613	1.03887	177	+139	4.478	15	−55	18.359	71	4.306	343
6.958	0.7640	1.04064	179	+ 12	4.493	16	−78	18.288	76	4.649	342
7.956	0.7667	1.04243	180	−142	4.509	16	−81	18.212	81	4.991	340
8.953	0.7694	+1.04423	181	−290	+4.525	17	−69	+18.131	87	+5.331	340
9.950	0.7722	1.04604	182	−385	4.542	17	−36	18.044	92	5.671	337
10.947	0.7749	1.04786	184	−398	4.559	18	+ 5	17.952	98	6.008	336
11.945	0.7776	1.04970	186	−314	4.577	19	+46	17.854	103	6.344	335
12.942	0.7804	1.05156	188	−146	4.596	19	+74	17.751	108	6.679	332
13.939	0.7831	1.05344		+ 71	4.615		+87	17.643		7.011	

für 12ʰ Sternzeit Greenwich

Mittlere Zeit Greenwich	t	A		A′	B		B′	C		D	
1919											
Okt. 13.939	0.7831	+1.05344	191	+ 71	+4.615	20	+87	+17.643	113	+ 7.011	331
14.936	0.7858	1.05535	192	+287	4.635	20	+77	17.530	119	7.342	329
15.934	0.7886	1.05727	194	+454	4.655	21	+50	17.411	124	7.671	326
16.931	0.7913	1.05921	196	+535	4.676	21	+11	17.287	130	7.997	325
17.928	0.7940	1.06117	198	+517	4.697	21	−31	17.157	134	8.322	322
18.926	0.7967	1.06315	200	+409	4.718	22	−62	17.023	140	8.644	320
19.923	0.7995	+1.06515	203	+247	+4.740	23	−80	+16.883	145	+ 8.964	317
20.920	0.8022	1.06718	205	+ 62	4.763	23	−81	16.738	149	9.281	315
21.917	0.8049	1.06923	208	−104	4.786	24	−65	16.589	156	9.596	312
22.915	0.8077	1.07131	211	−233	4.810	24	−40	16.433	160	9.908	309
23.912	0.8104	1.07342	214	−303	4.834	24	− 8	16.273	165	10.217	305
24.909	0.8131	1.07556	217	−315	4.858	24	+23	16.108	170	10.522	303
25.906	0.8159	+1.07773	219	−277	+4.882	25	+49	+15.938	175	+10.825	300
26.904	0.8186	1.07992	222	−200	4.907	25	+67	15.763	179	11.125	297
27.901	0.8213	1.08214	224	− 95	4.932	25	+74	15.584	185	11.422	294
28.898	0.8241	1.08438	228	+ 16	4.957	26	+69	15.399	189	11.716	290
29.896	0.8268	1.08666	230	+115	4.983	26	+52	15.210	194	12.006	287
30.893	0.8295	1.08896	233	+184	5.009	26	+24	15.016	199	12.293	284
31.890	0.8322	+1.09129	236	+198	+5.035	26	− 9	+14.817	203	+12.577	279
Nov. 1.887	0.8350	1.09365	239	+151	5.061	26	−44	14.614	208	12.856	275
2.885	0.8377	1.09604	243	+ 41	5.087	27	−69	14.406	213	13.131	272
3.882	0.8404	1.09847	246	−111	5.114	26	−81	14.193	216	13.403	269
4.879	0.8432	1.10093	250	−271	5.140	27	−76	13.977	221	13.672	264
5.876	0.8459	1.10343	252	−393	5.167	27	−51	13.756	225	13.936	259
6.874	0.8486	+1.10595	255	−441	+5.194	27	−13	+13.531	230	+14.195	255
7.871	0.8514	1.10850	259	−392	5.221	27	+29	13.301	233	14.450	252
8.868	0.8541	1.11109	262	−250	5.248	27	+65	13.068	238	14.702	247
9.865	0.8568	1.11371	265	− 40	5.275	27	+84	12.830	243	14.949	243
10.863	0.8595	1.11636	268	+194	5.302	26	+85	12.587	246	15.192	238
11.860	0.8623	1.11904	271	+394	5.328	27	+63	12.341	249	15.430	233
12.857	0.8650	+1.12175	275	+523	+5.355	26	+27	+12.092	254	+15.663	228
13.855	0.8677	1.12450	278	+553	5.381	26	−14	11.838	257	15.891	223
14.852	0.8705	1.12728	281	+486	5.407	26	−51	11.581	261	16.114	219
15.849	0.8732	1.13009	284	+343	5.433	26	−76	11.320	265	16.333	214
16.846	0.8759	1.13293	286	+162	5.459	26	−82	11.055	269	16.547	209
17.844	0.8787	1.13579	290	− 19	5.485	26	−74	10.786	272	16.756	204
18.841	0.8814	+1.13869	293	−166	+5.511	25	−52	+10.514	275	+16.960	199
19.838	0.8841	1.14162	296	−261	5.536	26	−20	10.239	277	17.159	194
20.835	0.8869	1.14458	298	−295	5.562	25	+12	9.962	282	17.353	189
21.833	0.8896	1.14756	302	−275	5.587	24	+41	9.680	285	17.542	182
22.830	0.8923	1.15058	304	−209	5.611	24	+60	9.395	287	17.724	177
23.827	0.8950	1.15362		−115	5.635		+71	9.108		17.901	

Reduktionsgrößen 1919

für 12^h Sternzeit Greenwich

Mittlere Zeit Greenwich		t	A		A'	B		B'	C		D	
1919												
Nov.	23.827	0.8950	+1.15362	307	−115	+5.635	24	+71	+9.108	291	+17.901	172
	24.825	0.8978	1.15669	310	− 5	5.659	23	+71	8.817	293	18.073	167
	25.822	0.9005	1.15979	312	+ 98	5.682	23	+59	8.524	295	18.240	161
	26.819	0.9032	1.16291	315	+177	5.705	22	+35	8.229	300	18.401	155
	27.816	0.9060	1.16606	318	+208	5.727	22	+ 5	7.929	302	18.556	149
	28.814	0.9087	1.16924	321	+179	5.749	22	−30	7.627	303	18.705	144
	29.811	0.9114	+1.17245	323	+ 87	+5.771	21	−60	+7.324	306	+18.849	138
	30.808	0.9142	1.17568	325	− 58	5.792	21	−77	7.018	308	18.987	132
Dez.	1.805	0.9169	1.17893	327	−225	5.813	20	−79	6.710	311	19.119	126
	2.803	0.9196	1.18220	329	−376	5.833	20	−63	6.399	313	19.245	120
	3.800	0.9223	1.18549	331	−466	5.853	19	−30	6.086	315	19.365	115
	4.797	0.9251	1.18880	332	−464	5.872	19	+10	5.771	316	19.480	108
	5.795	0.9278	+1.19212	335	−362	+5.891	17	+50	+5.455	318	+19.588	101
	6.792	0.9305	1.19547	336	−174	5.908	17	+77	5.137	321	19.689	96
	7.789	0.9333	1.19883	338	+ 60	5.925	17	+86	4.816	322	19.785	90
	8.786	0.9360	1.20221	340	+288	5.942	16	+74	4.494	322	19.875	84
	9.784	0.9387	1.20561	341	+458	5.958	15	+42	4.172	325	19.959	77
	10.781	0.9415	1.20902	342	+540	5.973	15	+ 3	3.847	326	20.036	71
	11.778	0.9442	+1.21244	344	+521	+5.988	14	−37	+3.521	327	+20.107	65
	12.775	0.9469	1.21588	345	+412	6.002	14	−68	3.194	329	20.172	58
	13.773	0.9496	1.21933	346	+249	6.016	13	−80	2.865	329	20.230	53
	14.770	0.9524	1.22279	347	+ 67	6.029	12	−78	2.536	329	20.283	46
	15.767	0.9551	1.22626	347	− 94	6.041	11	−61	2.207	331	20.329	39
	16.764	0.9578	1.22973	348	−210	6.052	11	−32	1.876	331	20.368	33
	17.762	0.9606	+1.23321	349	−269	+6.063	10	0	+1.545	332	+20.401	27
	18.759	0.9633	1.23670	349	−267	6.073	10	+31	1.213	333	20.428	20
	19.756	0.9660	1.24019	350	−216	6.083	8	+55	0.880	332	20.448	13
	20.754	0.9688	1.24369	350	−130	6.091	8	+69	0.548	333	20.461	7
	21.751	0.9715	1.24719	351	− 25	6.099	7	+73	+0.215	333	20.468	2
	22.748	0.9742	1.25070	350	+ 83	6.106	7	+65	−0.118	333	20.470	−6
	23.745	0.9770	+1.25420	350	+175	+6.113	5	+45	−0.451	333	+20.464	12
	24.743	0.9797	1.25770	349	+225	6.118	5	+17	0.784	333	20.452	18
	25.740	0.9824	1.26119	349	+221	6.123	5	−17	1.117	332	20.434	24
	26.737	0.9851	1.26468	349	+152	6.128	4	−48	1.449	332	20.410	32
	27.734	0.9879	1.26817	348	+ 24	6.132	3	−72	1.781	331	20.378	38
	28.732	0.9906	1.27165	347	−145	6.135	3	−81	2.112	330	20.340	44
	29.729	0.9933	+1.27512	347	−314	+6.138	1	−72	−2.442	330	+20.296	51
	30.726	0.9961	1.27859	346	−443	6.139	0	−45	2.772	330	20.245	56
	31.724	0.9988	1.28205	345	−492	6.139	0	− 5	3.102	328	20.189	63
	32.721	1.0015	1.28550	343	−438	6.139	1	+35	3.430	327	20.126	70
	33.718	1.0043	1.28893	342	−292	6.138	1	+68	3.757	326	20.056	76
	34.715	1.0070	1.29235		− 80	6.137		+84	4.083		19.980	

Mittlere Zeit Greenwich	Rechtwinklige Sonnenkoordinaten, bezogen auf das Äquinoktium 1925.0			Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium		
	X	*Y*	*Z*	*f*	log *g*	*G*
1919				s		h m s
Jan. −2.5	+0.112195	−0.896253	−0.388771	−17.439	2.05625	11 53 16
+1.5	0.181380	0.886618	0.384588	17.395	2.05516	11 53 13
5.5	0.249658	0.872547	0.378483	17.352	2.05408	11 53 12
9.5	0.316672	0.854122	0.370491	17.310	2.05302	11 53 13
13.5	0.382087	0.831456	0.360662	17.268	2.05198	11 53 14
17.5	+0.445598	−0.804678	−0.349048	−17.228	2.05096	11 53 16
21.5	0.506911	0.773917	0.335705	17.189	2.04997	11 53 20
25.5	0.565731	0.739312	0.320693	17.151	2.04901	11 53 24
29.5	0.621760	0.701025	0.304082	17.115	2.04809	11 53 28
Febr. 2.5	0.674703	0.659246	0.285958	17.081	2.04721	11 53 33
6.5	+0.724289	−0.614200	−0.266420	−17.048	2.04638	11 53 38
10.5	0.770281	0.566139	0.245575	17.016	2.04558	11 53 43
14.5	0.812482	0.515314	0.223530	16.987	2.04482	11 53 48
18.5	0.850713	0.461972	0.200391	16.959	2.04409	11 53 53
22.5	0.884799	0.406363	0.176267	16.932	2.04339	11 53 56
26.5	+0.914573	−0.348749	−0.151274	−16.906	2.04273	11 53 59
März 2.5	0.939882	0.289415	0.125536	16.882	2.04210	11 54 1
6.5	0.960600	0.228670	0.099188	16.858	2.04150	11 54 2
10.5	0.976648	0.166835	0.072368	16.836	2.04092	11 54 2
14.5	0.987987	0.104218	0.045208	16.814	2.04035	11 54 1
18.5	+0.994594	−0.041109	−0.017832	−16.792	2.03978	11 53 58
22.5	0.996451	+0.022205	+0.009634	16.770	2.03922	11 53 54
26.5	0.993554	0.085432	0.037062	16.749	2.03867	11 53 48
30.5	0.985911	0.148273	0.064321	16.727	2.03811	11 53 41
April 3.5	0.973563	0.210412	0.091273	16.705	2.03755	11 53 33
7.5	+0.956594	+0.271536	+0.117784	−16.682	2.03697	11 53 24
11.5	0.935126	0.331359	0.143732	16.658	2.03636	11 53 13
15.5	0.909286	0.389617	0.169005	16.634	2.03573	11 53 2
19.5	0.879207	0.446062	0.193492	16.608	2.03507	11 52 50
23.5	0.845030	0.500446	0.217084	16.581	2.03438	11 52 37
27.5	+0.806905	+0.552521	+0.239672	−16.553	2.03365	11 52 23
Mai 1.5	0.765013	0.602033	0.261146	16.524	2.03289	11 52 9
5.5	0.719572	0.648739	0.281403	16.493	2.03210	11 51 55
9.5	0.670828	0.692434	0.300356	16.461	2.03127	11 51 40
13.5	0.619024	0.732943	0.317930	16.427	2.03040	11 51 26

Mittlere Zeit Greenwich	Rechtwinklige Sonnenkoordinaten, bezogen auf das Äquinoktium 1925.0			Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium		
	X	*Y*	*Z*	*f*	log *g*	*G*
1919				s		h m s
Mai 13.5	+0.619024	+0.732943	+0.317930	—16.427	2.03040	11 51 26
17.5	0.564398	0.770106	0.334052	16.392	2.02949	11 51 12
21.5	0.507191	0.803768	0.348656	16.356	2.02856	11 50 58
25.5	0.447652	0.833780	0.361673	16.319	2.02759	11 50 45
29.5	0.386049	0.859990	0.373040	16.281	2.02659	11 50 32
Juni 2.5	+0.322685	+0.882271	+0.382702	—16.242	2.02555	11 50 21
6.5	0.257873	0.900532	0.390623	16.202	2.02449	11 50 10
10.5	0.191918	0.914716	0.396778	16.161	2.02341	11 50 0
14.5	0.125108	0.924780	0.401145	16.120	2.02231	11 49 52
18.5	+0.057730	0.930689	0.403710	16.078	2.02119	11 49 44
22.5	—0.009930	+0.932412	+0.404456	—16.037	2.02006	11 49 38
26.5	0.077569	0.929922	0.403373	15.995	2.01894	11 49 33
30.5	0.144862	0.923219	0.400463	15.954	2.01784	11 49 29
Juli 4.5	0.211484	0.912342	0.395745	15.913	2.01674	11 49 27
8.5	0.277131	0.897360	0.389249	15.872	2.01564	11 49 25
12.5	—0.341518	+0.878352	+0.381006	—15.833	2.01455	11 49 25
16.5	0.404374	0.855409	0.371054	15.794	2.01348	11 49 26
20.5	0.465429	0.828617	0.359431	15.756	2.01244	11 49 28
24.5	0.524406	0.798074	0.346180	15.719	2.01142	11 49 31
28.5	0.581014	0.763902	0.331355	15.683	2.01043	11 49 34
Aug. 1.5	—0.634975	+0.726263	+0.315029	—15.649	2.00947	11 49 38
5.5	0.686038	0.685341	0.297281	15.616	2.00855	11 49 42
9.5	0.733979	0.641329	0.278192	15.585	2.00767	11 49 47
13.5	0.778596	0.594423	0.257846	15.554	2.00682	11 49 52
17.5	0.819692	0.544816	0.236325	15.525	2.00600	11 49 56
21.5	—0.857065	+0.492705	+0.213718	—15.498	2.00522	11 50 0
25.5	0.890513	0.438317	0.190125	15.471	2.00448	11 50 4
29.5	0.919855	0.381909	0.165659	15.446	2.00378	11 50 7
Sept. 2.5	0.944947	0.323754	0.140435	15.422	2.00310	11 50 9
6.5	0.965674	0.264126	0.114572	15.399	2.00244	11 50 10
10.5	—0.981948	+0.203295	+0.088185	—15.377	2.00180	11 50 11
14.5	0.993693	0.141523	0.061388	15.355	2.00119	11 50 10
18.5	1.000827	0.079073	0.034296	15.334	2.00059	11 50 8
22.5	1.003279	+0.016230	+0.007037	15.313	2.00001	11 50 4
26.5	1.001008	—0.046694	—0.020256	15.292	1.99942	11 49 59

Mittlere Zeit Greenwich	Rechtwinklige Sonnenkoordinaten, bezogen auf das Äquinoktium 1925.0			Reduktion von dem mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium		
	X	*Y*	*Z*	*f*	log *g*	*G*
1919				s		h m s
Sept. 26.5	−1.001008	−0.046694	−0.020256	−15.292	1.99942	11 49 59
30.5	0.994013	0.109388	0.047448	15.271	1.99883	11 49 52
Okt. 4.5	0.982327	0.171545	0.074408	15.250	1.99824	11 49 45
8.5	0.966007	0.232872	0.101011	15.229	1.99764	11 49 35
12.5	0.945126	0.293095	0.127136	15.206	1.99701	11 49 24
16.5	−0.919752	−0.351944	−0.152665	−15.182	1.99635	11 49 12
20.5	0.889966	0.409130	0.177471	15.158	1.99567	11 48 59
24.5	0.855886	0.464357	0.201424	15.132	1.99496	11 48 45
28.5	0.817670	0.517334	0.224401	15.105	1.99421	11 48 30
Nov. 1.5	0.775505	0.567791	0.246287	15.077	1.99341	11 48 14
5.5	−0.729602	−0.615481	−0.266975	−15.047	1.99257	11 47 58
9.5	0.680178	0.660187	0.286369	15.015	1.99169	11 47 42
13.5	0.627447	0.701699	0.304378	14.982	1.99076	11 47 25
17.5	0.571632	0.739799	0.320904	14.947	1.98978	11 47 9
21.5	0.512993	0.774273	0.335855	14.911	1.98876	11 46 53
25.5	−0.451820	−0.804928	−0.349150	−14.874	1.98769	11 46 37
29.5	0.388426	0.831598	0.360718	14.835	1.98659	11 46 22
Dez. 3.5	0.323136	0.854153	0.370503	14.795	1.98544	11 46 8
7.5	0.256273	0.872494	0.378461	14.754	1.98426	11 45 55
11.5	0.188145	0.886540	0.384556	14.712	1.98304	11 45 44
15.5	−0.119064	−0.896204	−0.388747	−14.669	1.98180	11 45 34
19.5	−0.049368	0.901415	0.391004	14.626	1.98054	11 45 25
23.5	+0.020583	0.902127	0.391311	14.583	1.97928	11 45 18
27.5	0.090425	0.898332	0.389665	14.540	1.97801	11 45 13
31.5	0.159794	0.890058	0.386077	14.498	1.97674	11 45 9

Red. in $\alpha = f + {}^1/_{15}\, g \sin(G + \alpha) \operatorname{tg} \delta$

Red. in $\delta = g \cos(G + \alpha)$

Für α und δ sind ihre genäherten Werte für das Äquinoktium $\frac{t_1 + t_2}{2}$ zu setzen (t_1 das instantane wahre Äquinoktium, t_2 das Normaläquinoktium 1925.0); will man hingegen die auf das Äquinoktium t_2 bezogenen Koordinaten benutzen, so hat man noch die auf der folgenden Seite gegebenen Korrektionen anzubringen.

Korrektion der Reduktion vom mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium (s. S. 367/369), berechnet für 1919.5, mit Hinzufügung ihrer einjährigen Änderung

α	δ +60°		+50°		+30°		+10°		−10°		−30°		−50°		−60°	
	Für Rektaszension (in 0ˢ.001)															
0ʰ	+ 8	−3	+ 6	−2	+3	−1	+1	0	−1	0	−2	+1	− 5	+2	− 8	+2
1	+11	−4	+ 7	−3	+4	−1	+2	−1	0	0	−1	+1	− 3	+1	− 4	+1
2	+13	−5	+ 8	−3	+4	−1	+2	−1	0	0	−1	0	− 1	0	0	0
3	+13	−5	+ 8	−3	+4	−1	+2	−1	+1	0	0	0	0	0	+ 2	−1
4	+10	−4	+ 6	−2	+3	−1	+2	−1	+1	0	0	0	+ 1	0	+ 2	−1
5	+ 6	−2	+ 3	−1	+2	−1	+1	0	+1	0	0	0	+ 1	0	+ 2	−1
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	− 5	+2	− 3	+1	−1	0	0	0	0	0	0	0	0	0	− 1	0
8	−10	+4	− 6	+2	−2	+1	−1	0	0	0	0	0	0	0	− 2	+1
9	−12	+4	− 7	+3	−3	+1	−1	0	0	0	+1	0	0	0	− 1	0
10	−13	+5	− 8	+3	−3	+1	−1	0	0	0	+1	0	+ 2	−1	+ 1	0
11	−11	+4	− 7	+2	−3	+1	−1	0	+1	0	+2	−1	+ 4	−1	+ 4	−2
12	− 8	+2	− 5	+2	−2	+1	−1	0	+1	0	+3	−1	+ 6	−2	+ 8	−3
13	− 4	+1	− 3	+1	−1	+1	0	0	+2	−1	+4	−1	+ 7	−3	+11	−4
14	0	0	− 1	0	−1	0	0	0	+2	−1	+4	−1	+ 8	−3	+13	−5
15	+ 2	−1	0	0	0	0	+1	0	+2	−1	+4	−1	+ 8	−3	+13	−5
16	+ 2	−1	+ 1	0	0	0	+1	0	+2	−1	+3	−1	+ 6	−2	+10	−4
17	+ 2	−1	+ 1	0	0	0	+1	0	+1	0	+2	−1	+ 3	−1	+ 6	−2
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	− 1	0	0	0	0	0	0	0	0	0	−1	0	− 3	+1	− 5	+2
20	− 2	+1	0	0	0	0	0	0	−1	0	−2	+1	− 6	+2	−10	+4
21	− 1	0	0	0	+1	0	0	0	−1	0	−3	+1	− 7	+3	−12	+4
22	+ 1	0	+ 2	−1	+1	0	0	0	−1	0	−3	+1	− 8	+3	−13	+5
23	+ 4	−2	+ 4	−1	+2	−1	+1	0	−1	0	−3	+1	− 7	+2	−11	+4
24	+ 8	−3	+ 6	−2	+3	−1	+1	0	−1	0	−2	+1	− 5	+2	− 8	+2
	Für Deklination (in 0″.01)															
0ʰ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	− 2	+1	− 2	+1	−2	+1	−2	+1	−2	+1	−2	+1	− 2	+1	− 2	+1
2	− 5	+2	− 4	+2	−4	+1	−4	+1	−3	+1	−3	+1	− 3	+1	− 2	+1
3	− 7	+3	− 7	+2	−6	+2	−5	+2	−5	+2	−4	+1	− 3	+1	− 2	+1
4	−10	+4	− 9	+3	−7	+3	−6	+2	−6	+2	−5	+2	− 3	+1	− 2	+1
5	−11	+4	−10	+4	−8	+3	−7	+3	−6	+2	−5	+2	− 3	+1	− 2	+1
6	−12	+4	−10	+4	−8	+3	−7	+3	−6	+2	−5	+2	− 3	+1	− 2	+1
7	−11	+4	−10	+4	−8	+3	−7	+3	−6	+2	−5	+2	− 3	+1	− 2	+1
8	−10	+4	− 8	+3	−7	+3	−6	+2	−5	+2	−5	+2	− 3	+1	− 2	+1
9	− 7	+3	− 6	+2	−6	+2	−5	+2	−4	+2	−4	+1	− 3	+1	− 2	+1
10	− 5	+2	− 4	+2	−4	+1	−3	+1	−3	+1	−3	+1	− 2	+1	− 2	+1
11	− 2	+1	− 2	+1	−2	+1	−2	+1	−2	+1	−2	+1	− 1	+1	− 1	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	+ 2	−1	+ 2	−1	+2	−1	+2	−1	+2	−1	+2	−1	+ 2	−1	+ 2	−1
14	+ 2	−1	+ 3	−1	+3	−1	+3	−1	+4	−1	+4	−1	+ 4	−2	+ 5	−2
15	+ 2	−1	+ 3	−1	+4	−1	+5	−2	+5	−2	+6	−2	+ 7	−2	+ 7	−3
16	+ 2	−1	+ 3	−1	+5	−2	+6	−2	+6	−2	+7	−3	+ 9	−3	+10	−4
17	+ 2	−1	+ 3	−1	+5	−2	+6	−2	+7	−3	+8	−3	+10	−4	+11	−4
18	+ 2	−1	+ 3	−1	+5	−2	+6	−2	+7	−3	+8	−3	+10	−4	+12	−4
19	+ 2	−1	+ 3	−1	+5	−2	+6	−2	+7	−3	+8	−3	+10	−4	+11	−4
20	+ 2	−1	+ 3	−1	+5	−2	+5	−2	+6	−2	+7	−3	+ 8	−3	+10	−4
21	+ 2	−1	+ 3	−1	+4	−1	+4	−2	+5	−2	+6	−2	+ 6	−2	+ 7	−3
22	+ 2	−1	+ 2	−1	+3	−1	+3	−1	+3	−1	+4	−1	+ 4	−2	+ 5	−2
23	+ 1	0	+ 1	−1	+2	−1	+2	−1	+2	−1	+2	−1	+ 2	−1	+ 2	−1
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Übertragung mittlerer Polsternörter von dem Äquinoktium t_1 auf $t_2 = 1919.0$

t_1	$90° - (N)$	$(m) + (N) - 90°$	(n)
1755	+62 56.54	+62 58.67	+54 48.38
1790	49 31.05	49 32.36	43 6.45
1800	45 40.86	45 41.98	39 45.91
1810	41 50.65	41 51.59	36 25.38
1825	36 5.29	36 5.99	31 24.59
1830	+34 10.17	+34 10.79	+29 44.33
1835	32 15.03	32 15.59	28 4.07
1840	30 19.89	30 20.39	26 23.82
1845	28 24.75	28 25.18	24 43.56
1850	26 29.60	26 29.98	23 3.31
1855	+24 34.45	+24 34.77	+21 23.06
1860	22 39.29	22 39.56	19 42.81
1865	20 44.12	20 44.35	18 2.56
1870	18 48.95	18 49.14	16 22.31
1875	16 53.78	16 53.93	14 42.07
1880	+14 58.60	+14 58.72	+13 1.83
1885	13 3.41	13 3.50	11 21.59
1890	11 8.22	11 8.28	9 41.35
1895	9 13.02	9 13.07	8 1.11
1900	7 17.82	7 17.85	6 20.88
1905	+ 5 22.61	+ 5 22.63	+ 4 40.64
1910	3 27.40	3 27.40	3 0.41
1915	+ 1 32.18	+ 1 32.18	+ 1 20.18
1920	− 0 23.04	− 0 23.04	− 0 20.05

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für 1919.0, so hat man

$$a_1 = \alpha_1 + [90° - (N)]$$

$$p = \left(\operatorname{tang} \delta_1 + \cos a_1 \operatorname{tang} \tfrac{1}{2} (n)\right) \sin (n)$$

$$\operatorname{tang} \Delta a = \frac{p \sin a_1}{1 - p \cos a_1}$$

$$\alpha_2 = \alpha_1 + [(m) + (N) - 90°] + \Delta a$$

$$\operatorname{tang} \tfrac{1}{2} (\delta_2 - \delta_1) = \cos \left(a_1 + \tfrac{1}{2} \Delta a\right) \sec \tfrac{1}{2} \Delta a \operatorname{tang} \tfrac{1}{2} (n)$$

oder, fast immer ausreichend genau:

$$\delta_2 = \delta_1 + (n) \cos \left(a_1 + \tfrac{1}{2} \Delta a\right) \sec \tfrac{1}{2} \Delta a$$

Übertragung mittlerer Sternörter von dem Äquinoktium t_1 auf $t_2 = 1919.0$

t_1	$m^s \tau$	$\log [n^s \tau]$	$\log [n'' \tau]$
1755	$+8^m$ 23.670	2.340915	3.517006
1790	6 36.222	2.236628	3.412719
1800	6 5.518	2.201577	3.377668
1810	5 34.813	2.163448	3.339539
1825	4 48.750	2.099135	3.275226
1830	+4 33.395	2.075393	3.251484
1835	4 18.039	2.050277	3.226368
1840	4 2.684	2.023620	3.199711
1845	3 47.328	1.995221	3.171312
1850	3 31.971	1.964833	3.140924
1855	+3 16.614	1.932160	3.108251
1860	3 1.256	1.896827	3.072918
1865	2 45.898	1.858364	3.034455
1870	2 30.540	1.816161	2.992252
1875	2 15.181	1.769414	2.945505
1880	+1 59.821	1.717021	2.893112
1885	1 44.461	1.657430	2.833521
1890	1 29.100	1.58835	2.76444
1895	1 13.739	1.50615	2.68224
1900	0 58.378	1.40469	2.58078
1905	+0 43.016	1.27206	2.44815
1910	0 27.653	1.08017	2.25626
1915	+0 12.291	0.72798	1.90407
1920	−0 3.073	0.12592_n	1.30201_n

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 =$ 1919.0, ist ferner α', δ' der genäherte Sternort für die Zeit

$$\tfrac{1}{2} (t_1 + t_2),$$

so ist

$$\alpha_2 = \alpha_1 + m^s \tau + [n^s \tau] \sin \alpha' \operatorname{tg} \delta'$$

$$\delta_2 = \delta_1 + [n'' \tau] \cos \alpha'$$

α	0h, 12h		1h, 13h		2h, 14h		3h, 15h		4h, 16h		5h, 17h	
	+A₁−	+D−	+A₁−	+D−	+A₁−	+D−	+A₁−	+D−	+A₁−	+D−	+A₁−	+D−
m	s	"	s	"	s	"	s	"	s	"	s	"
0	0.005	120.27	2.080	116.15	4.014	104.13	5.673	84.98	6.946	60.06	7.746	31.04
1	040	120.27	114	116.02	044	103.86	698	84.61	964	59.60	755	30.54
2	075	120.27	148	115.88	074	103.60	723	84.24	981	59.15	764	30.03
3	110	120.26	182	115.74	104	103.33	747	83.86	6.998	58.69	773	29.52
4	145	120.25	215	115.60	134	103.06	771	83.48	7.015	58.23	781	29.02
5	180	120.24	249	115.45	164	102.79	796	83.10	032	57.77	789	28.51
6	215	120.23	282	115.30	194	102.51	820	82.72	049	57.31	798	28.00
7	250	120.21	316	115.15	224	102.24	844	82.34	066	56.85	806	27.49
8	285	120.19	349	115.00	253	101.96	868	81.96	082	56.38	814	26.98
9	320	120.17	383	114.84	283	101.68	891	81.57	098	55.92	821	26.47
10	0.355	120.15	2.416	114.69	4.313	101.40	5.915	81.19	7.115	55.45	7.829	25.95
11	390	120.13	449	114.53	342	101.11	939	80.80	131	54.99	837	25.44
12	425	120.10	483	114.37	371	100.83	962	80.41	147	54.52	844	24.93
13	460	120.07	516	114.21	401	100.54	5.986	80.02	162	54.05	851	24.41
14	495	120.04	549	114.04	430	100.25	6.009	79.63	178	53.58	858	23.90
15	530	120.01	582	113.87	459	99.96	032	79.23	194	53.11	865	23.38
16	565	119.97	615	113.70	488	99.67	055	78.84	209	52.64	872	22.87
17	600	119.93	648	113.53	517	99.38	078	78.44	224	52.17	878	22.35
18	634	119.89	681	113.35	546	99.08	100	78.04	239	51.70	885	21.84
19	669	119.85	714	113.18	575	98.78	123	77.64	254	51.22	891	21.32
20	0.704	119.80	2.747	113.00	4.603	98.48	6.146	77.24	7.269	50.74	7.897	20.80
21	739	119.75	780	112.82	632	98.18	168	76.84	284	50.26	903	20.29
22	774	119.70	813	112.63	660	97.87	190	76.43	298	49.79	909	19.77
23	809	119.65	846	112.45	689	97.57	212	76.03	313	49.31	915	19.25
24	843	119.60	878	112.26	717	97.26	234	75.62	327	48.84	920	18.73
25	878	119.55	911	112.07	745	96.95	256	75.21	341	48.36	925	18.22
26	913	119.49	944	111.88	774	96.64	278	74.80	355	47.88	931	17.70
27	948	119.43	2.976	111.69	802	96.33	300	74.39	369	47.39	936	17.18
28	0.983	119.37	3.009	111.49	830	96.01	321	73.97	383	46.91	941	16.66
29	1.017	119.30	041	111.29	858	95.70	343	73.56	396	46.42	945	16.14
30	1.052	119.23	3.073	111.09	4.885	95.38	6.364	73.14	7.409	45.94	7.950	15.62
31	087	119.16	106	110.89	913	95.06	386	72.73	423	45.46	955	15.10
32	121	119.09	138	110.68	941	94.73	407	72.31	436	44.97	959	14.58
33	156	119.01	170	110.48	968	94.41	428	71.89	449	44.48	963	14.06
34	190	118.94	202	110.27	4.996	94.08	448	71.47	462	44.00	967	13.53
35	225	118.86	234	110.06	5.023	93.75	469	71.05	474	43.51	970	13.01
36	260	118.78	266	109.85	050	93.42	490	70.63	487	43.02	974	12.49
37	294	118.69	298	109.63	077	93.09	510	70.20	500	42.53	978	11.97
38	329	118.61	330	109.41	104	92.76	531	69.77	512	42.04	982	11.44
39	363	118.52	362	109.19	131	92.43	551	69.34	524	41.54	985	10.92
40	1.398	118.43	3.393	108.97	5.158	92.09	6.571	68.91	7.536	41.05	7.988	10.40
41	432	118.34	425	108.75	185	91.75	591	68.48	548	40.56	991	9.88
42	466	118.24	457	108.53	211	91.41	611	68.05	560	40.06	994	9.36
43	501	118.14	489	108.30	238	91.07	631	67.62	572	39.57	996	8.83
44	535	118.04	520	108.07	264	90.72	650	67.18	583	39.07	7.999	8.31
45	570	117.94	551	107.84	291	90.38	670	66.74	594	38.58	8.001	7.79
46	604	117.84	582	107.61	317	90.03	689	66.31	605	38.08	003	7.26
47	638	117.73	614	107.37	343	89.68	708	65.87	616	37.58	005	6.74
48	672	117.62	645	107.13	369	89.33	727	65.43	627	37.08	007	6.22
49	707	117.51	676	106.89	395	88.98	746	64.99	638	36.58	009	5.69
50	1.741	117.40	3.707	106.65	5.421	88.63	6.765	64.55	7.649	36.08	8.011	5.17
51	775	117.29	738	106.41	447	88.27	784	64.11	659	35.58	012	4.65
52	809	117.17	769	106.16	472	87.91	803	63.66	669	35.08	013	4.12
53	843	117.05	800	105.92	498	87.55	821	63.21	679	34.58	014	3.59
54	877	116.93	831	105.67	523	87.19	839	62.76	689	34.07	015	3.07
55	911	116.80	861	105.42	548	86.82	857	62.31	699	33.57	016	2.55
56	945	116.68	892	105.16	574	86.45	875	61.86	709	33.07	017	2.02
57	1.979	116.55	922	104.90	599	86.09	893	61.41	719	32.56	017	1.50
58	2.013	116.42	953	104.65	624	85.72	911	60.96	728	32.05	018	0.97
59	047	116.29	3.983	104.39	649	85.35	929	60.51	737	31.55	018	0.45
60	2.080	116.15	4.014	104.13	5.673	84.98	6.946	60.06	7.746	31.04	8.018	

α	6^h, 18^h		7^h, 19^h		8^h, 20^h		9^h, 21^h		10^h, 22^h		11^h, 23^h	
m	$+A_1-$ s	$-D+$ ″	$+A_1-$ s	$-D+$ ″	$+A_1-$ s	$-D+$ ″	$+A_1-$ s	$-D+$ ″	$+A_1-$ s	$-D+$ ″	$+A_1-$ s	$-D+$ ″
0	8.018	0.08	7.743	31.21	6.942	60.21	5.665	85.10	4.004	104.20	2.070	116.20
1	018	0.61	734	31.72	924	60.66	640	85.47	3.973	104.46	036	116.33
2	018	1.13	725	32.22	906	61.11	616	85.84	943	104.72	2.002	116.46
3	017	1.65	716	32.72	889	61.56	591	86.21	913	104.97	1.968	116.59
4	017	2.18	706	33.23	870	62.01	565	86.57	882	105.23	935	116.72
5	016	2.70	697	33.73	852	62.46	540	86.93	852	105.48	901	116.85
6	015	3.23	687	34.23	834	62.91	515	87.29	821	105.73	867	116.97
7	014	3.75	677	34.74	816	63.36	489	87.65	790	105.98	832	117.09
8	013	4.28	667	35.24	797	63.80	464	88.01	759	106.23	798	117.21
9	012	4.80	656	35.74	779	64.24	438	88.37	728	106.47	764	117.32
10	8.010	5.33	7.646	36.24	6.760	64.69	5.413	88.73	3.697	106.72	1.730	117.44
11	009	5.85	635	36.74	741	65.13	387	89.08	666	106.96	696	117.55
12	007	6.37	624	37.24	722	65.57	361	89.43	635	107.20	662	117.66
13	005	6.90	614	37.74	703	66.01	335	89.78	604	107.43	627	117.77
14	003	7.42	602	38.24	684	66.45	308	90.13	572	107.67	593	117.87
15	8.000	7.95	591	38.74	664	66.88	282	90.48	541	107.90	559	117.97
16	7.998	8.47	580	39.23	645	67.32	256	90.82	510	108.13	525	118.07
17	996	8.99	568	39.73	625	67.75	229	91.16	478	108.36	490	118.17
18	993	9.51	557	40.23	605	68.18	203	91.51	447	108.58	456	118.27
19	990	10.04	545	40.72	585	68.62	176	91.85	415	108.81	421	118.36
20	7.987	10.56	7.533	41.21	6.565	69.05	5.149	92.19	3.383	109.04	1.387	118.46
21	984	11.08	521	41.70	545	69.48	122	92.52	351	109.26	353	118.55
22	981	11.61	509	42.19	525	69.91	095	92.86	320	109.47	318	118.63
23	977	12.13	497	42.68	505	70.33	068	93.19	288	109.69	284	118.72
24	974	12.65	484	43.17	484	70.76	041	93.52	256	109.90	249	118.80
25	970	13.18	471	43.66	463	71.18	5.014	93.85	224	110.12	214	118.88
26	966	13.70	459	44.15	443	71.60	4.987	94.17	192	110.33	180	118.96
27	962	14.22	446	44.64	422	72.02	959	94.50	160	110.53	145	119.04
28	958	14.74	433	45.13	401	72.44	932	94.82	128	110.74	110	119.11
29	953	15.26	419	45.61	380	72.86	904	95.15	095	110.94	076	119.18
30	7.949	15.78	7.406	46.10	6.358	73.28	4.876	95.46	3.063	111.14	1.041	119.25
31	944	16.30	393	46.59	337	73.70	848	95.78	3.031	111.34	1.007	119.32
32	939	16.82	379	47.08	315	74.11	821	96.10	2.998	111.54	0.972	119.38
33	934	17.34	365	47.55	294	74.52	793	96.41	966	111.74	937	119.44
34	929	17.86	351	48.03	272	74.94	765	96.73	933	111.93	902	119.50
35	924	18.38	337	48.51	250	75.34	736	97.04	901	112.12	868	119.56
36	918	18.90	323	48.99	228	75.75	708	97.35	868	112.31	833	119.62
37	913	19.41	309	49.47	206	76.16	680	97.65	835	112.50	798	119.67
38	907	19.93	294	49.95	184	76.56	651	97.96	802	112 68	763	119.72
39	901	20.45	280	50.43	162	76.97	623	98.26	770	112.86	728	119.77
40	7.895	20.97	7.265	50.90	6.139	77.37	4.594	98.56	2.737	113.04	0.694	119.82
41	889	21.49	250	51.38	117	77.77	565	98.86	704	113.22	659	119.86
42	883	22.00	235	51.86	094	78.17	537	99.16	671	113.40	624	119.90
43	876	22.51	220	52.33	071	78.57	508	99.46	638	113.58	589	119.94
44	870	23.03	205	52.80	048	78.97	479	99.75	605	113.74	554	119.98
45	863	23.54	189	53.27	025	79.36	450	100.05	572	113.91	520	120.02
46	856	24.06	174	53.74	6.002	79.75	421	100.34	539	114.08	485	120.05
47	849	24.57	158	54.21	5.979	80.15	392	100.62	506	114.24	449	120.08
48	842	25.08	142	54.67	955	80.54	362	100.91	472	114.41	414	120.11
49	834	25.60	126	55.14	932	80.92	333	101.19	439	114.57	379	120.14
50	7.827	26.11	7.110	55.61	5.908	81.31	4.303	101.48	2.405	114.73	0.344	120.16
51	819	26.62	094	56.07	885	81.70	273	101.76	372	114.88	309	120.18
52	811	27.13	077	56.54	861	82.08	244	102.04	339	115.04	275	120.20
53	803	27.65	061	57.00	837	82.46	214	102.31	305	115.19	240	120.21
54	795	28.16	044	57.46	813	82.85	184	102.59	272	115.34	205	120.23
55	787	28.67	028	57.92	788	83.22	154	102.86	238	115.49	170	120.24
56	779	29.18	7.011	58.38	764	83.60	124	103.13	204	115.63	135	120.25
57	770	29.69	6.994	58.84	739	83.98	094	103.40	171	115.77	100	120.26
58	761	30.20	976	59.29	715	84.35	064	103.67	137	115.92	065	120.27
59	752	30.70	959	59.75	690	84.73	034	103.93	103	116.06	030	120.27
60	7.743	31.21	6.942	60.21	5.665	85.10	4.004	104.20	2.070	116.20		120.27

Übertragung von Sternörtern vom mittleren Äquinoktium 1919.0 auf das Normaläquinoktium 1925.0 (Fortsetzung)

α	A	A_2	D_1	α	α	A	A_2	D_1	α
h m	s	s	"	h m	h m	s	s	"	h m
0 0	+18.437	+0.0000	−0.000	12 0	6 0	+18.436	−0.0000	−0.035	18 0
10	437	02	000	10	10	436	02	035	10
20	437	04	000	20	20	436	04	035	20
30	437	06	001	30	30	436	06	034	30
40	437	08	001	40	40	436	08	034	40
50	437	10	002	50	50	436	10	033	50
1 0	+18.437	+0.0012	−0.002	13 0	7 0	+18.436	−0.0012	−0.033	19 0
10	437	13	003	10	10	436	13	032	10
20	437	15	004	20	20	436	15	031	20
30	437	17	005	30	30	436	17	030	30
40	437	18	006	40	40	436	18	029	40
50	437	19	007	50	50	436	19	028	50
2 0	+18.438	+0.0020	−0.009	14 0	8 0	+18.435	−0.0020	−0.026	20 0
10	438	21	010	10	10	435	21	025	10
20	438	22	012	20	20	435	22	024	20
30	438	23	013	30	30	435	23	022	30
40	438	23	014	40	40	435	23	021	40
50	438	23	016	50	50	435	23	019	50
3 0	+18.438	+0.0023	−0.018	15 0	9 0	+18.435	−0.0023	−0.018	21 0
10	438	23	019	10	10	435	23	016	10
20	438	23	021	20	20	435	23	014	20
30	438	23	022	30	30	435	23	013	30
40	438	22	024	40	40	435	22	012	40
50	438	21	025	50	50	435	21	010	50
4 0	+18.438	+0.0020	−0.026	16 0	10 0	+18.435	−0.0020	−0.009	22 0
10	437	19	028	10	10	436	19	007	10
20	437	18	029	20	20	436	18	006	20
30	437	17	030	30	30	436	17	005	30
40	437	15	031	40	40	436	15	004	40
50	437	13	032	50	50	436	13	003	50
5 0	+18.437	+0.0012	−0.033	17 0	11 0	+18.436	−0.0012	−0.002	23 0
10	437	10	033	10	10	436	10	002	10
20	437	08	034	20	20	436	08	001	20
30	437	06	034	30	30	436	06	001	30
40	437	04	035	40	40	436	04	000	40
50	437	02	035	50	50	436	02	000	50
6 0	+18.436	+0.0000	−0.035	18 0	12 0	+18.437	−0.0000	−0.000	24 0

$$\alpha_{1925} = \alpha_{1919} + A + A_1 \operatorname{tg} \delta_{1919} + A_2 \operatorname{tg}^2 \delta_{1919}$$
$$\delta_{1925} = \delta_{1919} + D + D_1 \operatorname{tg} \delta_{1919}$$

A_1 und D sind in der Tafel (S. 372/373) mit dem Argument α_{1919} zu entnehmen; für die Werte von α zwischen 0^h und 12^h gelten die Vorzeichen zur Linken, für die Werte von α zwischen 12^h und 24^h die Vorzeichen zur Rechten.

Finsternisse, Sternbedeckungen, Trabanten

Konstellationen, Hülfstafeln

1919

Im Jahre 1919 finden zwei Sonnenfinsternisse und eine Mondfinsternis statt.

I. Totale Sonnenfinsternis 1919 Mai 28—29

Konjunktion in Rektaszension Mai 29, $1^h 6^m 38^s.0$ Mittl. Zt. Greenwich

Rektaszension des Mondes	$4^h 21^m 6^s.93$
Stündliche Änderung	2 41.66
Rektaszension der Sonne	+ 21 6.93
Stündliche Änderung	10.17
Deklination des Mondes	$+21° 12' 12''.4$
Stündliche Änderung	+ 2 49.7
Deklination der Sonne	+21 30 15.1
Stündliche Änderung	+ 23.9
Äquatorialhorizontalparallaxe des Mondes . .	61 3.8
» der Sonne . . .	8.7
Halbmesser des Mondes	16 37.5
» der Sonne	15 46.6

		Mittlere Zeit Greenwich	Westl. Länge von Greenwich	Geographische Breite
Beginn der Finsternis überhaupt	Mai 28	$22^h 33^m.5$	63° 27′	−14° 6′
Beginn der zentralen Finsternis	» 28	23 30.1	75 9	−19 43
Ende der zentralen Finsternis	» 29	2 47.4	317 33	−12 25
Ende der Finsternis überhaupt	» 29	3 44.0	329 24	− 6 46

Grenzkurven für die Sichtbarkeit der Finsternis

Westliche Grenze λ	Westliche Grenze φ	Südliche Grenze λ	Südliche Grenze φ	Östliche Grenze λ	Östliche Grenze φ	Nördliche Grenze λ	Nördliche Grenze φ	Zentralkurve: Mittlere Zeit Greenwich	Zentralkurve λ	Zentralkurve φ	Dauer der Totalität
88°.4	+ 8°.7	59°.9	−53°.2	328°.8	−46°.8	304°.5	+16°.0	h m	75°.1	−19°.7	m s
89.0	+ 8.3	41.8	−44.4	328.2	−47.0	328.0	+25.4	23 40	54.0	−10.2	4 9
90.8	+ 6.4	33.5	−40.4	325.4	−46.7	337.3	+28.8	0 0	40.9	− 3.8	5 13
91.9	+ 3.0	23.5	−36.3	319.4	−42.6	351.5	+32.9	20	32.5	0.0	6 0
92.1	− 2.8	16.1	−34.4	305.2	−17.1	3.6	+34.9	40	25.7	+ 2.5	6 32
90.8	−12.3	9.3	−33.9	301.6	− 2.1	14.8	+35.2	1 0	19.4	+ 4.0	6 48
84.4	−31.3	1.8	−34.7	300.8	+ 6.2	25.5	+34.0	20	13.3	+ 4.7	6 48
74.3	−45.8	351.1	−37.7	301.2	+11.3	35.7	+31.6	40	6.9	+ 4.5	6 31
64.6	−52.7	340.7	−41.7	302.4	+14.4	46.1	+27.8	2 0	359.6	+ 3.3	5 57
61.1	−53.5	328.8	−46.8	304.3	+15.9	57.7	+22.6	20	350.6	+ 0.7	5 7
59.9	−53.2			304.5	+16.0	65.1	+19.0	40	335.9	− 4.9	3 57
						88.4	+ 8.7		317.6	−12.4	

Die Finsternis beginnt in der westlichen Hälfte von Südamerika, schreitet über Brasilien und den Atlantischen Ozean fort, ist sichtbar in ganz Afrika, mit Ausnahme der nördlichen Küstenteile, und endet östlich von Madagaskar.

Elemente der totalen Sonnenfinsternis 1919 Mai 28—29

Mittl. Zeit Greenwich	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
22h 30m	−1.51297	−0.40113	9.56384	9.96871	338° 13.′8	+0.53172	−0.01412
40	1.41640	0.39438	9.56386	9.96871	340 43.8	0.53174	0.01411
50	1.31982	0.38763	9.56388	9.96870	343 13.8	0.53176	0.01409
23 0	−1.22325	−0.38089	9.56390	9.96870	345 43.8	+0.53177	−0.01407
10	1.12666	0.37416	9.56392	9.96870	348 13.8	0.53179	0.01406
20	1.03008	0.36744	9.56394	9.96869	350 43.8	0.53181	0.01404
30	0.93349	0.36073	9.56396	9.96869	353 13.8	0.53182	0.01403
40	0.83690	0.35402	9.56398	9.96869	355 43.8	0.53184	0.01401
50	0.74030	0.34732	9.56400	9.96868	358 13.8	0.53185	0.01400
0 0	−0.64371	−0.34063	9.56403	9.96868	0 43.8	+0.53186	−0.01399
10	0.54711	0.33394	9.56405	9.96868	3 13.8	0.53187	0.01397
20	0.45051	0.32727	9.56407	9.96868	5 43.8	0.53188	0.01396
30	0.35391	0.32060	9.56409	9.96868	8 13.8	0.53189	0.01395
40	0.25730	0.31394	9.56411	9.96867	10 43.8	0.53190	0.01394
50	0.16070	0.30728	9.56413	9.96867	13 13.8	0.53191	0.01393
1 0	−0.06409	−0.30064	9.56416	9.96867	15 43.8	+0.53192	−0.01392
10	+0.03251	0.29400	9.56418	9.96867	18 13.8	0.53193	0.01392
20	0.12912	0.28737	9.56420	9.96866	20 43.8	0.53194	0.01391
30	0.22572	0.28075	9.56422	9.96866	23 13.8	0.53194	0.01390
40	0.32233	0.27413	9.56424	9.96866	25 43.8	0.53195	0.01390
50	0.41893	0.26753	9.56426	9.96865	28 13.8	0.53195	0.01389
2 0	+0.51554	−0.26093	9.56428	9.96865	30 43.8	+0.53196	−0.01389
10	0.61214	0.25434	9.56430	9.96865	33 13.8	0.53196	0.01389
20	0.70874	0.24775	9.56432	9.96864	35 43.8	0.53196	0.01388
30	0.80533	0.24118	9.56434	9.96864	38 13.8	0.53197	0.01388
40	0.90193	0.23461	9.56437	9.96864	40 43.8	0.53197	0.01388
50	0.99852	0.22805	9.56439	9.96863	43 13.8	0.53197	0.01388
3 0	+1.09511	−0.22150	9.56441	9.96863	45 43.8	+0.53197	−0.01388
10	1.19170	0.21496	9.56443	9.96863	48 13.8	0.53197	0.01388
20	1.28828	0.20842	9.56445	9.96862	50 43.8	0.53197	0.01388
30	1.38486	0.20189	9.56447	9.96862	53 13.8	0.53197	0.01388
40	1.48144	0.19537	9.56449	9.96862	55 43.8	0.53196	0.01388
50	1.57801	0.18886	9.56451	9.96861	58 13.8	0.53196	0.01389

Mittl. Zeit Greenwich	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
22h	+0.009656	+0.000678	7.66389	7.66172
23	9658	673	7.66388	7.66171
0	9659	669	7.66388	7.66171
1	9660	664	7.66388	7.66171
2	9660	659	7.66387	7.66171
3	9659	655	7.66387	7.66170
4	9657	650	7.66387	7.66170

II. Partielle Mondfinsternis 1919 November 7

Opposition in Rektaszension November 7, $12^h 3^m 54^s.1$ Mittl. Zt. Greenwich

Rektaszension des Mondes	$2^h 48^m 16^s.89$
Stündliche Änderung	2 35.96
Rektaszension der Sonne	14 48 16.89
Stündliche Änderung	9.99
Deklination des Mondes	$+17^\circ 10' 9''.9$
Stündliche Änderung	+7 53.9
Deklination der Sonne	−16 12 18.1
Stündliche Änderung	− 44.5
Äquatorialhorizontalparallaxe des Mondes . . .	61 18.2
» der Sonne . . .	8.9
Halbmesser des Mondes	16 41.4
» der Sonne	16 8.7

Anfang der Finsternis . . .	Nov. 7,	$10^h 58^m.3$	Mittl. Zt. Greenwich
Mitte der Finsternis		11 44.1	» » »
Ende der Finsternis		12 29.9	» » »

Der Mond steht zu Beginn und Ende der Finsternis im Zenit der Orte, deren geographische Lage bezüglich ist:

$349^\circ 18'$ westliche Länge von Greenwich, $17^\circ 1'$ nördliche Breite
11 16 » » » » , 17 13 » »

Positionswinkel des Eintritts . . . . = 143°
» » Austritts . . . . = 194
Größe der Verfinsterung in Teilen des Monddurchmessers = 0.184

Der Beginn der Finsternis ist sichtbar in Asien ohne den östlichen Teil, in Europa, Afrika, dem östlichen Teil von Nordamerika und in Südamerika ohne den äußersten Westen. Das Ende ist sichtbar im westlichen Asien, in Europa, Afrika, Südamerika und in Nordamerika ohne den äußersten Westen.

III. Ringförmige Sonnenfinsternis 1919 November 22

Konjunktion in Rektaszension	Nov. 22, 3h 7m 37s.5 Mittl. Zt. Greenwich
Rektaszension des Mondes	15h 48m 14s.18
Stündliche Änderung	2 4.64
Rektaszension der Sonne	15 48 14.18
Stündliche Änderung	10.50
Deklination des Mondes	−19° 35′ 28.″1
Stündliche Änderung	− 3 42.9
Deklination der Sonne	−20 0 6.2
Stündliche Änderung	− 32.8
Äquatorialhorizontalparallaxe des Mondes . .	53 56.8
» der Sonne . . .	8.9
Halbmesser des Mondes	14 41.3
» der Sonne	16 11.7

	Mittl. Zeit Greenwich	Westl. Länge von Greenwich	Geographische Breite
Beginn der Finsternis überhaupt .	0h 14m.4	88° 35′	+22° 11′
Beginn der zentralen Finsternis . .	1 28.0	102 31	+31 41
Ende der zentralen Finsternis . .	5 0.1	355 49	+19 11
Ende der Finsternis überhaupt . .	6 13.7	10 25	+ 9 33

Grenzkurven für die Sichtbarkeit der Finsternis

Nordwestliche Grenze λ	φ	Südliche Grenze λ	φ	Nordöstliche Grenze λ	φ	Mittlere Zeit Greenwich	Zentralkurve λ	φ	Dauer der ringförmigen Verfinsterung
44.°7	+69.°6	115.°2	+ 0.°4	344.°1	−12.°3	h m	102.°5	+31.°7	m s
62.0	+69.8	96.9	− 7.3	340.2	− 8.8	1 40	80.3	+21.9	8 25
85.3	+66.2	85.1	−13.4	337.9	− 1.5	2 0	69.4	+16.0	9 30
103.7	+57.5	77.2	−17.6	337.8	+11.6	20	62.4	+12.3	10 22
113.7	+46.2	70.0	−21.1	338.9	+20.8	40	57.0	+ 9.7	11 2
118.6	+35.2	62.8	−24.1	341.6	+31.8	3 0	52.2	+ 7.8	11 28
120.9	+25.8	55.0	−26.3	346.5	+44.0	20	47.5	+ 6.6	11 37
121.7	+18.1	46.6	−27.5	355.2	+55.3	40	42.8	+ 6.1	11 25
121.5	+12.1	37.4	−27.5	7.3	+63.3	4 0	37.5	+ 6.2	10 54
120.7	+ 7.6	27.1	−26.1	19.6	+67.4	20	31.1	+ 7.2	10 7
119.4	+ 4.3	14.6	−23.0	30.2	+69.3	40	22.2	+ 9.7	9 3
117.8	+ 2.0	6.2	−20.2	39.4	+70.0	50	15.4	+12.0	8 24
115.2	+ 0.4	344.1	−12.3	47.5	+69.9		355.8	+19.2	

Die Finsternis beginnt demnach im südlichen Nordamerika, ist sichtbar in Nordamerika mit Ausnahme des Nordwestens und in Südamerika mit Ausnahme von Chile, Argentinien und Uruguay; sie schreitet über den Atlantischen Ozean, ist sichtbar im westlichen Europa, in Westdeutschland, der Schweiz und Italien und in der westlichen Hälfte von Nordafrika.

In Europa fällt der Beginn der Finsternis nahe mit Sonnenuntergang zusammen.

Elemente der ringförmigen Sonnenfinsternis 1919 Nov. 22

Mittl. Zeit Greenwich	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
$0^h 10^m$	−1.47916	+0.63321	9.53356_n	9.97305	5° 59.′7	+0.57396	+0.02790
20	1.39590	0.62330	9.53359_n	9.97305	8 29.7	0.57397	0.02791
30	1.31265	0.61339	9.53362_n	9.97304	10 59.7	0.57398	0.02792
40	1.22939	0.60348	9.53365_n	9.97304	13 29.7	0.57399	0.02793
50	1.14612	0.59358	9.53368_n	9.97304	15 59.7	0.57400	0.02794
1 0	−1.06285	+0.58368	9.53371_n	9.97303	18 29.7	+0.57401	+0.02795
10	0.97958	0.57379	9.53374_n	9.97303	20 59.7	0.57402	0.02796
20	0.89631	0.56391	9.53377_n	9.97302	23 29.6	0.57403	0.02797
30	0.81304	0.55403	9.53381_n	9.97302	25 59.6	0.57404	0.02798
40	0.72977	0.54416	9.53384_n	9.97301	28 29.6	0.57404	0.02799
50	0.64649	0.53430	9.53387_n	9.97301	30 59.6	0.57405	0.02799
2 0	−0.56321	+0.52444	9.53390_n	9.97301	33 29.6	+0.57406	+0.02800
10	0.47993	0.51458	9.53393_n	9.97300	35 59.6	0.57406	0.02800
20	0.39664	0.50473	9.53396_n	9.97300	38 29.6	0.57407	0.02801
30	0.31336	0.49489	9.53399_n	9.97299	40 59.5	0.57407	0.02801
40	0.23008	0.48506	9.53402_n	9.97299	43 29.5	0.57408	0.02802
50	0.14679	0.47523	9.53405_n	9.97299	45 59.5	0.57408	0.02802
3 0	−0.06351	+0.46541	9.53409_n	9.97298	48 29.5	+0.57408	+0.02802
10	+0.01978	0.45559	9.53412_n	9.97298	50 59.5	0.57408	0.02803
20	0.10307	0.44578	9.53415_n	9.97297	53 29.5	0.57409	0.02803
30	0.18636	0.43597	9.53418_n	9.97297	55 59.5	0.57409	0.02803
40	0.26965	0.42618	9.53421_n	9.97296	58 29.4	0.57409	0.02803
50	0.35294	0.41639	9.53424_n	9.97296	60 59.4	0.57409	0.02803
4 0	+0.43623	+0.40660	9.53427_n	9.97296	63 29.4	+0.57409	+0.02803
10	0.51952	0.39682	9.53430_n	9.97295	65 59.4	0.57409	0.02803
20	0.60281	0.38705	9.53434_n	9.97295	68 29.4	0.57409	0.02803
30	0.68610	0.37728	9.53437_n	9.97294	70 59.4	0.57408	0.02803
40	0.76939	0.36752	9.53440_n	9.97294	73 29.4	0.57408	0.02803
50	0.85268	0.35777	9.53443_n	9.97294	75 59.4	0.57408	0.02802
5 0	+0.93597	+0.34803	9.53446_n	9.97293	78 29.3	+0.57408	+0.02802
10	1.01926	0.33829	9.53449_n	9.97293	80 59.3	0.57407	0.02802
20	1.10254	0.32855	9.53452_n	9.97292	83 29.3	0.57407	0.02801
30	1.18583	0.31883	9.53455_n	9.97292	85 59.3	0.57406	0.02801
40	1.26911	0.30911	9.53458_n	9.97292	88 29.3	0.57406	0.02800
50	1.35239	0.29939	9.53461_n	9.97291	90 59.3	0.57405	0.02799
6 0	+1.43567	+0.28968	9.53465_n	9.97291	93 29.3	+0.57404	+0.02799
10	1.51895	0.27998	9.53468_n	9.97291	95 59.2	0.57404	0.02798
20	1.60222	0.27028	9.53471_n	9.97290	98 29.2	0.57403	0.02797

Mittl. Zeit Greenwich	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
0^h	+0.008326	−0.000993	7.67540	7.67323
1	8327	989	7.67540	7.67324
2	8328	986	7.67541	7.67324
3	8328	982	7.67541	7.67324
4	8329	978	7.67541	7.67325
5	8329	974	7.67542	7.67325
6	8328	970	7.67542	7.67325
7	8326	967	7.67543	7.67326

Ringförmige Sonnenfinsternis 1919 November 22

Mittlere Zeit Greenwich und Positionswinkel für den Anfang der Finsternis

φ		Östliche Länge von Greenwich 25m	35m	45m	55m
45°	T	$3^{h}\,26^{m}.6$	$3^{h}\,27^{m}.6$	$3^{h}\,28^{m}.5$	$3^{h}\,29^{m}.2$
	P	233°.9	235°.1	236°.3	237°.5
	Q	195.3	195.4	195.5	195.8
46°	T	3 26.1	3 27.0	3 27.9	3 28.5
	P	232.7	233.9	235.1	236.3
	Q	195.0	195.1	195.2	195.5
47°	T	3 25.5	3 26.4	3 27.2	3 27.8
	P	231.6	232.8	233.9	235.1
	Q	194.7	194.8	195.0	195.3
48°	T	3 24.9	3 25.8	3 26.5	3 27.1
	P	230.5	231.6	232.7	233.9
	Q	194.4	194.6	194.8	195.1
49°	T	3 24.2	3 25.1	3 25.8	3 26.3
	P	229.4	230.5	231.6	232.8
	Q	194.2	194.4	194.6	194.9
50°	T	3 23.6	3 24.4	3 25.1	3 25.6
	P	228.3	229.4	230.5	231.6
	Q	194.0	194.2	194.4	194.7
51°	T	3 23.0	3 23.8	3 24.4	3 24.8
	P	227.2	228.3	229.4	230.5
	Q	193.8	194.0	194.2	194.5
52°	T	3 22.3	3 23.1	3 23.7	3 24.0
	P	226.1	227.2	228.3	229.4
	Q	193.6	193.8	194.0	194.4
53°	T	3 21.6	3 22.3	3 22.9	3 23.3
	P	225.1	226.2	227.3	228.4
	Q	193.4	193.6	193.9	194.2
54°	T	3 20.9	3 21.6	3 22.1	3 22.5
	P	224.0	225.1	226.2	227.3
	Q	193.3	193.5	193.7	194.1
55°	T	3 20.2	3 20.8	3 21.3	3 21.6
	P	223.0	224.1	225.2	226.3
	Q	193.2	193.4	193.6	194.0

P, Q } Winkelabstand vom Punkt größter { Deklination / Höhe

Mittlere Zeit Greenwich und Betrag der größten Phase, sowie Zeit des Sonnenuntergangs

φ		Östliche Länge von Greenwich 25m	35m	45m	55m
45°	T_{max}	$4^{h}\,30^{m}.9$	$4^{h}\,31^{m}.8$	$4^{h}\,32^{m}.4$	$4^{h}\,32^{m}.7$
	T_u	4 1	3 51	3 41	3 31
	Ph	0.39	0.41	0.43	0.44
46°	T_{max}	4 29.3	4 30.3	4 30.8	4 31.1
	T_u	3 58	3 48	3 38	3 28
	Ph	0.38	0.39	0.41	0.43
47°	T_{max}	4 27.6	4 28.7	4 29.1	4 29.5
	T_u	3 55	3 45	3 35	3 25
	Ph	0.36	0.38	0.39	0.41
48°	T_{max}	4 25.8	4 26.9	4 27.4	4 27.8
	T_u	3 51	3 41	3 31	3 21
	Ph	0.35	0.36	0.38	0.39
49°	T_{max}	4 24.0	4 25.0	4 25.6	4 26.1
	T_u	3 48	3 38	3 28	3 18
	Ph	0.33	0.35	0.36	0.37
50°	T_{max}	4 22.1	4 23.1	4 23.8	4 24.3
	T_u	3 44	3 34	3 24	3 14
	Ph	0.32	0.33	0.34	0.36
51°	T_{max}	4 20.2	4 21.2	4 22.0	4 22.5
	T_u	3 40	3 30	3 20	3 10
	Ph	0.30	0.31	0.33	0.34
52°	T_{max}	4 18.3	4 19.3	4 20.1	4 20.7
	T_u	3 36	3 26	3 16	3 6
	Ph	0.29	0.30	0.31	0.33
53°	T_{max}	4 16.4	4 17.4	4 18.2	4 18.8
	T_u	3 32	3 22	3 12	3 2
	Ph	0.27	0.28	0.30	0.31
54°	T_{max}	4 14.5	4 15.5	4 16.3	4 16.9
	T_u	3 27	3 17	3 7	2 57
	Ph	0.26	0.27	0.28	0.30
55°	T_{max}	4 12.5	4 13.6	4 14.4	4 15.0
	T_u	3 22	3 12	3 2	2 52
	Ph	0.24	0.25	0.27	0.28

T_{max}, T_u } Mittlere Zeit Greenwich { der größten Phase / des Sonnenuntergangs

I. Verzeichnis von Fixsternen, welche in Mitteleuropa vom Monde bedeckt werden

Nr.	Name	Gr.	$\alpha_{1919.0}$	$\delta_{1919.0}$	Nr.	Name	Gr.	$\alpha_{1919.0}$	$\delta_{1919.0}$
			h m s	° ′				h m s	° ′
29	Piscium	5.6	0 28 13	+ 6 30.5	353	*n* Tauri	5.1	5 14 25	+22 0.8
98	π Piscium	5.6	1 32 48	+11 43.7	354	Tauri	6.2	5 14 27	+20 3.0
120	Arietis	6.3	1 58 13	+13 5.2	358	Tauri	6.5	5 16 10	+19 44.0
132	Arietis	5.8	2 8 38	+14 54.0	367	ο Tauri	4.8	5 22 46	+21 52.1
161	Arietis	6.5	2 39 48	+17 25.3	377	Tauri	6.1	5 28 50	+20 25.1
168	π Arietis	5.2	2 44 46	+17 7.7	382	ζ Tauri	3.0	5 32 48	+21 5.7
170	Arietis	6.4	2 48 41	+16 9.2	399	Orionis	6.0	5 47 35	+19 50.9
173	Arietis	6.0	2 51 15	+18 0.3	403	χ^1 Orionis	4.5	5 49 35	+20 15.7
174	ρ Arietis	5.6	2 51 52	+17 42.1	404	Orionis	5.8	5 50 9	+19 44.1
184	Arietis	6.0	3 2 52	+17 34.1	412	Orionis	5.1	5 58 40	+19 41.6
185	Arietis	6.5	3 3 45	+18 29.1	413	χ^2 Orionis	4.7	5 59 7	+20 8.5
188	Arietis	4.5	3 7 0	+19 25.3	423	Orionis	5.7	6 7 14	+19 48.6
200	Arietis	6.4	3 22 26	+18 28.4	429	Orionis	5.1	6 10 5	+19 11.1
214	Tauri	6.2	3 39 6	+19 24.6	448	Gemin.	6.5	6 22 57	+20 50.4
254	Tauri	5.5	4 4 27	+19 23.8	449	Gemin.	6.2	6 23 8	+20 32.8
262	ω Tauri	4.8	4 12 31	+20 22.8	451	ν Gemin.	4.1	6 24 9	+20 15.9
263	Tauri	5.6	4 13 35	+21 22.9	471	Gemin.	6.2	6 42 40	+18 16.9
264	Tauri	5.3	4 14 40	+20 56.8	483	Gemin.	6.2	6 57 43	+17 52.3
265	Tauri	5.2	4 14 49	+21 34.7	517	Gemin.	5.7	7 27 8	+17 15.6
275	Tauri	6.1	4 17 37	+20 37.9	525	*f* Gemin.	5.3	7 34 48	+17 51.6
292	Tauri	5.8	4 23 12	+21 26.4	540	Cancri	6.0	7 52 24	+16 0.5
312	Tauri	6.4	4 30 57	+19 42.9	541	Cancri	6.0	7 53 54	+16 44.3
315	Tauri	5.8	4 33 29	+20 31.4	548	Cancri	5.9	7 56 53	+16 40.8
335	ι Tauri	4.7	4 58 15	+21 28.5	560	Cancri	6.1	8 6 26	+14 52.2
337	Tauri	6.3	4 59 32	+21 9.9	576	Cancri	5.9	8 24 6	+14 28.8
340	Tauri	6.3	5 0 45	+19 41.8	581	Cancri	6.4	8 29 16	+13 32.1
343	*l* Tauri	5.2	5 3 1	+20 18.7	600	A^1 Cancri	5.5	8 38 45	+12 58.3
344	Tauri	6.0	5 3 5	+21 35.9	604	A^2 Cancri	5.7	8 42 30	+12 24.5
346	Tauri	6.5	5 4 3	+19 45.3	611	Cancri	5.7	8 51 30	+11 56.2
351	Tauri	6.2	5 10 35	+22 11.6	614	α Cancri	4.3	8 54 4	+12 10.3

Die auf S. 382—385 angegebenen Nummern beziehen sich auf den Catalogue of Zodiacal Stars by H. B. Hedrick (in Astronomical Papers of the American Ephemeris, Vol. VIII, Part III)

I. Verzeichnis von Fixsternen, welche in Mitteleuropa vom Monde bedeckt werden

Nr.	Name	Gr.	$\alpha_{1919.0}$	$\delta_{1919.0}$	Nr.	Name	Gr.	$\alpha_{1919.0}$	$\delta_{1919.0}$
			h m s	° ′				h m s	° ′
625	κ Cancri	5.1	9 3 22	+10 59.7	1252	ξ Sagitt.	3.7	18 52 54	−21 12.9
640	ω Leonis	5.5	9 24 7	+ 9 24.6	1258	Sagitt.	6.1	18 58 18	−19 21.8
642	Leonis	5.8	9 24 10	+ 8 32.6	1268	Sagitt.	5.4	19 3 31	−19 25.1
657	Sext.	6.0	9 41 54	+ 7 5.0	1272	Sagitt.	6.3	19 5 2	−19 55.9
664	Sext.	6.3	9 49 28	+ 6 20.4	1278	*d* Sagitt.	5.0	19 12 54	−19 5.9
675	Sext.	6.3	10 2 33	+ 6 0.4	1284	Sagitt.	6.4	19 16 52	−19 23.2
682	Sext.	5.9	10 8 36	+ 5 0.9	1287	Sagitt.	6.0	19 17 7	−18 27.6
715	Leonis	6.3	10 48 4	+ 1 27.3	1305	Sagitt.	5.8	19 32 21	−18 24.7
716	Leonis	6.1	10 51 32	+ 1 10.1	1349	Capric.	6.2	20 16 14	−15 2.5
723	p^3 Leonis	6.1	10 59 28	+ 0 26.1	1350	β Capric.	3.2	20 16 28	−15 2.3
752	*e* Leonis	5.1	11 26 11	− 2 33.4	1364	Capric.	6.2	20 26 32	−15 19.7
768	Virginis	5.9	11 46 54	− 4 53.0	1411	ν Aquarii	4.5	21 5 11	−11 42.0
810	η Virginis	5.3	12 29 36	− 9 0.3	1452	c^1 Capric.	5.3	21 40 41	− 9 27.3
855	*i* Virginis	5.7	13 22 26	−12 17.2	1453	c^2 Capric.	6.3	21 41 57	− 9 39.0
896	Virginis	6.5	14 0 49	−15 56.9	1469	Aquarii	5.6	21 59 1	− 6 54.9
903	Virginis	5.1	14 6 25	−15 55.2	1491	Aquarii	5.7	22 12 53	− 5 47.5
958	ι Librae	4.7	15 7 36	−19 29.2	1496	Aquarii	5.8	22 19 54	− 5 14.8
960	Librae	6.0	15 8 42	−19 20.6	1510	κ Aquarii	5.2	22 33 34	− 4 38.8
975	Librae	6.2	15 25 55	−20 27.0	1514	Aquarii	6.3	22 36 37	− 3 58.5
985	Librae	5.9	15 33 33	−20 44.9	1532	Piscium	6.2	22 54 5	− 2 49.8
1015	Scorpii	5.9	15 52 56	−20 44.9	1562	Piscium	6.4	23 19 23	− 0 9.2
1028	ω^1 Scorpii	4.3	16 2 4	−20 27.1	1563	κ Piscium	4.9	23 22 47	+ 0 48.7
1030	ω^2 Scorpii	4.6	16 2 39	−20 39.1	1564	Piscium	6.4	23 23 6	+ 0 40.7
1138	Oph.	6.4	17 30 26	−21 59.4	1579	Piscium	5.7	23 32 15	+ 1 39.2
1144	Oph.	4.8	17 38 35	−21 38.7	1582	λ Piscium	4.6	23 37 55	+ 1 20.0
1168	Sagitt.	5.7	17 57 0	−22 46.8	1585	Piscium	5.4	23 42 15	+ 3 2.2
1177	Sagitt.	6.2	18 2 20	−21 27.2	1590	Piscium	5.8	23 47 49	+ 2 28.8
1184	μ Sagitt.	4.0	18 8 55	−21 4.9					
1185	Sagitt.	5.6	18 9 24	−21 44.1					
1204	Sagitt.	5.0	18 20 32	−20 35.2					
1222	Sagitt.	5.7	18 33 3	−21 28.0					
1225	Sagitt.	5.9	18 34 4	−21 7.2					
1231	Sagitt.	6.3	18 40 29	−21 5.1					
1238	Sagitt.	5.3	18 44 52	−20 25.1					
1250	Sagitt.	5.1	18 52 32	−20 45.8					

II. Konjunktionszeiten der in Mitteleuropa sichtbaren Sternbedeckungen

Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)	h m	Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)	h m	Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)	h m
1453	6.3	Jan. 5	3 21.8	614	4.3	Febr. 13	11 46.2	1185	5.6	April 20	13 35.8
1510	5.2	6	3 26.7	625	5.1	13	16 10.8	1272	6.3	21	15 19.7
1514	6.3	6	4 52.2	752	5.1	16	16 15.4	1452	5.3	24	15 52.4
1579	5.7	7	6 50.7	1168	5.7	24	16 48.6	1510	5.2	25	16 18.2
185	6.5	11	3 12.2	1250	5.1	25	17 27.2	1563	4.9	26	14 33.7
188	4.5	11	4 30.9	1252	3.7	25	17 37.0	1564	6.4	26	14 42.1
263	5.6	12	7 3.4	161	6.5	März 6	4 46.5	423	5.7	Mai 3	6 40.8
264	5.3	12	7 28.6	168	5.2	6	6 47.2	560	6.1	5	8 20.2
265	5.2	12	7 32.3	173	6.0	6	9 24.2	614	4.3	6	6 12.7
292	5.8	12	10 50.3	174	5.6	6	9 38.9	625	5.1	6	10 38.1
351	6.2	13	5 25.8	214	6.2	7	4 34.2	752	5.1	9	11 33.3
353	5.1	13	6 55.8	335	4.7	8	12 7.3	960	6.0	14	6 36.4
367	4.8	13	10 13.0	337	6.3	8	12 38.1	975	6.2	14	14 56.8
448	6.5	14	10 9.6	525	5.3	11	5 37.5	1231	6.3	18	9 53.2
449	6.2	14	10 14.0	540	6.0	11	13 30.4	1238	5.3	18	11 55.5
451	4.1	14	10 38.8	541	6.0	11	14 11.4	1305	5.8	19	10 6.1
525	5.3	15	15 59.2	581	6.4	12	6 28.2	1364	6.2	20	11 42.0
576	5.9	16	13 39.9	600	5.5	12	10 55.8	1491	5.7	22	14 28.7
581	6.4	16	16 0.2	604	5.7	12	12 42.4	600	5.5	Juni 2	7 23.7
625	5.1	17	7 47.3	640	5.5	13	8 50.7	604	5.7	2	9 5.4
640	5.5	17	17 41.8	682	5.9	14	7 9.6	958	4.7	10	12 23.8
675	6.3	18	12 37.2	716	6.1	15	5 20.6	960	6.0	10	12 56.0
682	5.9	18	15 39.4	723	6.1	15	9 29.1	1138	6.4	13	7 32.4
715	6.3	19	11 53.2	768	5.9	16	10 28.3	1225	5.9	14	12 45.4
716	6.1	19	13 41.6	896	6.5	19	8 19.1	1284	6.4	15	8 32.6
723	6.1	19	17 49.9	903	5.1	19	11 9.4	1411	4.5	17	11 41.3
768	5.9	20	18 53.9	958	4.7	20	17 34.8	1469	5.6	18	13 36.8
810	5.3	21	17 38.1	1222	5.7	24	17 28.3	1579	5.7	20	10 12.2
896	6.5	23	17 14.3	200	6.4	April 3	5 59.2	1585	5.4	20	14 53.2
1562	6.4	Febr. 3	7 7.0	315	5.8	4	9 22.0	29	5.6	21	12 0.2
132	5.8	6	9 37.8	382	3.0	5	8 31.7	200	6.4	24	12 43.8
174	5.6	7	3 39.3	451	4.1	6	5 13.4	675	6.3	Juli 1	7 51.6
185	6.5	7	8 33.0	517	5.7	7	7 54.4	716	6.1	2	8 9.6
263	5.6	8	12 51.6	576	5.9	8	9 37.3	896	6.5	6	10 7.1
264	5.3	8	13 17.4	581	6.4	8	12 2.0	985	5.9	8	7 55.3
275	6.1	8	14 28.6	640	5.5	9	14 29.9	1185	5.6	11	8 15.8
335	4.7	9	6 47.7	675	6.3	10	9 52.8	1272	6.3	12	9 38.9
337	6.3	9	7 18.5	682	5.9	10	12 58.7	1278	5.0	12	13 15.3
344	6.0	9	8 44.1	715	6.3	11	9 31.7	1284	6.4	12	15 4.7
353	5.1	9	13 17.7	716	6.1	11	11 21.3	1452	5.3	15	10 22.8
541	6.0	12	8 12.0	752	5.1	12	5 41.6	1453	6.3	15	10 58.9
548	5.9	12	9 31.8	896	6.5	15	14 45.9	1510	5.2	16	11 37.9
600	5.5	13	4 35.7	975	6.2	17	8 53.3	1514	6.3	16	13 5.2
611	5.7	13	10 33.9	985	5.9	17	12 34.2	1562	6.4	17	9 26.0

II. Konjunktionszeiten der in Mitteleuropa sichtbaren Sternbedeckungen

Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)	h	m
1563	4.9	Juli 17	11	2.6
1564	6.4	17	11	11.6
1579	5.7	17	15	30.8
132	5.8	20	13	40.8
184	6.0	21	12	5.8
262	4.8	22	15	44.7
1231	6.3	Aug. 8	6	22.1
1238	5.3	8	8	22.0
1364	6.2	10	6	56.1
1496	5.8	12	11	44.5
1562	6.4	13	15	29.0
168	5.2	17	10	1.4
337	6.3	19	16	12.6
403	4.5	20	12	5.1
413	4.7	20	15	53.5
540	6.0	22	14	37.6
855	5.7	29	6	15.3
1015	5.9	Sept. 1	8	44.0
1138	6.4	3	6	40.9
1144	4.8	3	10	27.7
1278	5.0	5	5	59.7
1284	6.4	5	7	49.6
1532	6.2	9	12	5.5
1579	5.7	10	5	25.3
1582	4.6	10	7	58.2
1590	5.8	10	12	24.8
29	5.6	11	6	19.3
98	5.6	12	10	7.1
200	6.4	14	7	2.3
312	6.4	15	10	13.4
315	5.8	15	11	13.4
377	6.1	16	9	10.0
399	6.0	16	16	40.5
640	5.5	20	14	27.9
1177	6.2	Okt. 1	5	36.1
1184	4.0	1	8	41.7
1258	6.1	2	7	53.0
1268	5.4	2	10	20.0
1452	5.3	5	12	15.1
1496	5.8	6	6	30.3
1510	5.2	6	12	48.9
1514	6.3	6	14	13.0
1562	6.4	7	9	41.5

Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)	h	m
1563	4.9	Okt. 7	11	13.4
1564	6.4	7	11	21.9
1579	5.7	7	15	28.2
29	5.6	8	16	2.1
120	6.3	10	5	32.8
184	6.0	11	7	9.3
200	6.4	11	14	45.0
254	5.5	12	6	55.8
312	6.4	12	17	6.1
354	6.2	13	9	51.4
377	6.1	13	15	26.6
429	5.1	14	7	41.3
517	5.7	15	15	20.9
675	6.3	18	14	45.5
682	5.9	18	17	44.3
715	6.3	19	13	31.3
716	6.1	19	15	17.0
1028	4.3	26	3	31.0
1030	4.6	26	3	47.9
1305	5.8	30	7	40.5
1349	6.2	31	4	49.0
1350	3.2	31	4	55.8
1411	4.5	Nov. 1	4	30.0
1469	5.6	2	6	26.3
1532	6.2	3	8	31.4
1582	4.6	4	4	42.0
1590	5.8	4	9	10.2
98	5.6	6	6	13.1
120	6.3	6	16	29.3
170	6.4	7	12	15.2
184	6.0	7	17	41.1
254	5.5	8	16	50.6
340	6.3	9	13	46.8
343	5.2	9	14	37.2
346	6.5	9	15	0.6
399	6.0	10	7	21.9
403	4.5	10	8	7.3
404	5.8	10	8	20.1
412	5.1	10	11	34.6
413	4.7	10	11	44.8
423	5.7	10	14	51.2
429	5.1	10	15	57.1
483	6.2	11	10	36.7

Nr.	Größe	Konjunktion in Rektaszension (Mittl. Zeit Greenw.)	h	m
540	6.0	Nov. 12	9	5.9
560	6.1	12	15	5.5
611	5.7	13	11	0.6
625	5.1	13	16	25.5
657	6.0	14	10	31.3
664	6.3	14	14	9.7
752	5.1	16	14	39.0
1204	5.0	25	3	32.1
1278	5.0	26	4	36.0
1287	6.0	26	6	38.3
1452	5.3	29	5	5.1
1510	5.2	30	7	6.6
1514	6.3	30	8	35.8
1562	6.4	Dez. 1	5	13.4
1563	4.9	1	6	50.5
1564	6.4	1	6	59.5
1579	5.7	1	11	19.5
29	5.6	2	13	5.5
120	6.3	4	3	36.7
184	6.0	5	5	10.8
200	6.4	5	12	38.7
254	5.5	6	4	22.7
312	6.4	6	14	9.8
354	6.2	7	6	7.6
358	6.5	7	6	45.2
377	6.1	7	11	24.8
399	6.0	7	18	20.2
403	4.5	7	19	4.6
404	5.8	7	19	17.1
471	6.2	8	15	1.2
517	5.7	9	8	20.6
540	6.0	9	18	31.0
581	6.4	10	9	53.4
600	5.5	10	13	57.0
604	5.7	10	15	34.2
640	5.5	11	10	2.3
642	5.8	11	10	3.8
657	6.0	11	18	12.2
1491	5.7	27	2	49.9
1496	5.8	27	6	19.5
120	6.3	31	12	36.7

Verfinsterungen: E. Eintritte, A. Austritte

TRABANT I

		h	m	
Jan.	1	2	18.3	E.
	2	23	2.9	A.
	4	17	31.6	A.
	6	12	0.3	A.
	8	6	29.0	A.
	10	0	57.8	A.
	11	19	26.5	A.
	13	13	55.2	A.
	15	8	23.9	A.
	17	2	52.7	A.
	18	21	21.5	A.
	20	15	50.3	A.
	22	10	19.0	A.
	24	4	47.9	A.
	25	23	16.6	A.
	27	17	45.5	A.
	29	12	14.2	A.
	31	6	43.1	A.
Febr.	2	1	11.9	A.
	3	19	40.8	A.
	5	14	9.6	A.
	7	8	38.5	A.
	9	3	7.3	A.
	10	21	36.2	A.
	12	16	5.0	A.
	14	10	33.9	A.
	16	5	2.8	A.
	17	23	31.7	A.
	19	18	0.5	A.
	21	12	29.5	A.
	23	6	58.3	A.
	25	1	27.3	A.
	26	19	56.1	A.
	28	14	25.1	A.
März	2	8	53.9	A.
	4	3	22.9	A.
	5	21	51.7	A.
	7	16	20.7	A.
	9	10	49.6	A.
	11	5	18.6	A.
	12	23	47.4	A.
	14	18	16.3	A.
	16	12	45.2	A.
	18	7	14.2	A.
	20	1	43.0	A.
	21	20	12.0	A.
	23	14	40.9	A.
	25	9	9.9	A.
	27	3	38.7	A.

TRABANT I

		h	m	
März	28	22	7.6	A.
	30	16	36.5	A.
April	1	11	5.5	A.
	3	5	34.3	A.
	5	0	3.3	A.
	6	18	32.1	A.
	8	13	1.1	A.
	10	7	29.9	A.
	12	1	58.9	A.
	13	20	27.7	A.
	15	14	56.7	A.
	17	9	25.5	A.
	19	3	54.4	A.
	20	22	23.2	A.
	22	16	52.1	A.
	24	11	21.0	A.
	26	5	49.9	A.
	28	0	18.7	A.
	29	18	47.6	A.
Mai	1	13	16.4	A.
	3	7	45.2	A.
	5	2	14.0	A.
	6	20	42.9	A.
	8	15	11.7	A.
	10	9	40.6	A.
	12	4	9.3	A.
	13	22	38.2	A.
	15	17	7.0	A.
	17	11	35.8	A.
	19	6	4.6	A.
	21	0	33.4	A.
	22	19	2.1	A.
	24	13	30.9	A.
	26	7	59.7	A.
	28	2	28.5	A.
	29	20	57.2	A.
	31	15	26.0	A.
Juni	2	9	54.7	A.
	4	4	23.4	A.
	5	22	52.1	A.
	7	17	20.8	A.
	9	11	49.5	A.
	11	6	18.3	A.
	13	0	47.0	A.
	14	19	15.7	A.
	16	13	44.3	A.
	18	8	13.1	A.
	20	2	41.7	A.
	21	21	10.4	A.

TRABANT I

		h	m	
Juni	23	15	39.0	A.
	25	10	7.7	A.
Aug.	13	21	9.8	E.
	15	15	38.2	E.
	17	10	6.7	E.
	19	4	35.1	E.
	20	23	3.5	E.
	22	17	31.9	E.
	24	12	0.3	E.
	26	6	28.7	E.
	28	0	57.1	E.
	29	19	25.5	E.
	31	13	53.9	E.
Sept.	2	8	22.2	E.
	4	2	50.6	E.
	5	21	19.0	E.
	7	15	47.3	E.
	9	10	15.7	E.
	11	4	44.0	E.
	12	23	12.4	E.
	14	17	40.7	E.
	16	12	9.0	E.
	18	6	37.4	E.
	20	1	5.7	E.
	21	19	34.0	E.
	23	14	2.3	E.
	25	8	30.6	E.
	27	2	58.9	E.
	28	21	27.2	E.
	30	15	55.5	E.
Okt.	2	10	23.8	E.
	4	4	52.1	E.
	5	23	20.4	E.
	7	17	48.6	E.
	9	12	16.9	E.
	11	6	45.2	E.
	13	1	13.5	E.
	14	19	41.7	E.
	16	14	10.0	E.
	18	8	38.3	E.
	20	3	6.6	E.
	21	21	34.8	E.
	23	16	3.1	E.
	25	10	31.3	E.
	27	4	59.6	E.
	28	23	27.8	E.
	30	17	56.1	E.
Nov.	1	12	24.4	E.

TRABANT I

		h	m	
Nov.	3	6	52.6	E.
	5	1	20.8	E.
	6	19	49.1	E.
	8	14	17.4	E.
	10	8	45.6	E.
	12	3	13.9	E.
	13	21	42.1	E.
	15	16	10.5	E.
	17	10	38.7	E.
	19	5	6.9	E.
	20	23	35.2	E.
	22	18	3.5	E.
	24	12	31.7	E.
	26	7	0.0	E.
	28	1	28.2	E.
	29	19	56.6	E.
Dez.	1	14	24.8	E.
	3	8	53.1	E.
	5	3	21.4	E.
	6	21	49.7	E.
	8	16	18.0	E.
	10	10	46.3	E.
	12	5	14.6	E.
	13	23	42.9	E.
	15	18	11.2	E.
	17	12	39.6	E.
	19	7	7.9	E.
	21	1	36.3	E.
	22	20	4.6	E.
	24	14	32.9	E.
	26	9	1.3	E.
	28	3	29.7	E.
	29	21	58.0	E.
	31	16	26.4	E.

TRABANT II

		h	m	
Jan.	3	15	45.7	A.
	7	5	3.1	A.
	10	18	20.5	A.
	14	7	37.9	A.
	17	20	55.3	A.
	21	10	12.8	A.
	24	23	30.2	A.
	28	12	47.7	A.
Febr.	1	2	5.2	A.
	4	15	22.7	A.
	8	4	40.2	A.
	11	17	57.8	A.
	15	7	15.3	A.

Verfinsterungen: E. Eintritte, A. Austritte

TRABANT II

	h	m	
Febr. 18	20	32.9	A.
22	9	50.4	A.
25	23	8.1	A.
März 1	12	25.7	A.
5	1	43.3	A.
8	15	1.0	A.
12	4	18.6	A.
15	17	36.3	A.
19	6	54.0	A.
22	20	11.7	A.
26	9	29.4	A.
29	22	47.2	A.
April 2	12	5.0	A.
6	1	22.8	A.
9	14	40.6	A.
13	3	58.4	A.
16	17	16.3	A.
20	6	34.1	A.
23	19	52.0	A.
27	9	9.9	A.
30	22	27.9	A.
Mai 4	11	45.8	A.
8	1	3.8	A.
11	14	21.7	A.
15	3	39.8	A.
18	16	57.8	A.
22	6	15.9	A.
25	19	33.9	A.
29	8	52.0	A.
Juni 1	22	10.0	A.
5	11	28.2	A.
9	0	46.3	A.
12	14	4.6	A.
16	3	22.6	A.
19	16	40.9	A.
23	5	59.0	A.
26	19	17.4	A.
Aug. 15	10	43.6	E.
19	0	1.4	E.
22	13	20.0	E.
26	2	37.9	E.
29	15	56.5	E.
Sept. 2	5	14.3	E.
5	18	32.9	E.
9	7	50.7	E.
12	21	9.4	E.
16	10	27.1	E.
19	23	45.8	E.

TRABANT II

	h	m	
Sept. 23	13	3.5	E.
27	2	22.1	E.
30	15	39.8	E.
Okt. 4	4	58.4	E.
7	18	16.1	E.
11	7	34.6	E.
14	20	52.2	E.
18	10	10.8	E.
21	23	28.4	E.
25	12	46.8	E.
29	2	4.4	E.
Nov. 1	15	22.8	E.
5	4	40.3	E.
8	17	58.7	E.
12	7	16.1	E.
15	20	34.4	E.
19	9	51.9	E.
22	23	10.1	E.
26	12	27.6	E.
30	1	45.7	E.
Dez. 3	15	3.1	E.
7	4	21.2	E.
10	17	38.6	E.
14	6	56.6	E.
17	20	14.0	E.
21	9	32.0	E.
24	22	49.4	E.
28	12	7.3	E.

TRABANT III

	h	m	
Jan. 6	19	48.6	A.
13	23	48.6	A.
21	3	48.9	A.
28	7	49.9	A.
Febr. 4	11	50.9	A.
11	12	35.6	E.
11	15	52.6	A.
18	16	35.8	E.
18	19	53.7	A.
25	20	35.8	E.
25	23	54.5	A.
März 5	0	35.5	E.
5	3	55.0	A.
12	4	35.4	E.
12	7	55.8	A.
19	8	36.0	E.
19	11	57.1	A.
26	12	36.4	E.
26	15	58.3	A.

TRABANT III

	h	m	
April 2	16	37.4	E.
2	20	0.1	A.
9	20	37.6	E.
10	0	1.2	A.
17	0	37.6	E.
17	4	1.8	A.
24	4	37.3	E.
24	8	2.1	A.
Mai 1	8	36.8	E.
1	12	2.5	A.
8	12	37.1	E.
8	16	3.4	A.
15	16	37.2	E.
15	20	4.2	A.
22	20	37.8	E.
23	0	5.4	A.
30	4	5.7	A.
Juni 6	8	5.6	A.
13	12	5.3	A.
20	16	4.9	A.
Aug. 16	20	26.5	E.
24	0	25.1	E.
31	4	24.1	E.
Sept. 7	8	22.3	E.
14	12	20.2	E.
21	16	17.8	E.
21	19	53.8	A.
28	20	15.4	E.
28	23	51.8	A.
Okt. 6	0	13.7	E.
6	3	50.4	A.
13	4	11.8	E.
13	7	48.8	A.
20	8	10.3	E.
20	11	47.7	A.
27	12	8.1	E.
27	15	45.7	A.
Nov. 3	16	5.6	E.
3	19	43.4	A.
10	20	2.9	E.
10	23	41.0	A.
18	0	0.3	E.
18	3	38.7	A.
25	3	58.5	E.
25	7	37.1	A.
Dez. 2	7	56.6	E.
2	11	35.4	A.
9	11	55.2	E.

TRABANT III

	h	m	
Dez. 9	15	34.2	A.
16	15	53.1	E.
16	19	32.3	A.
23	19	50.9	E.
23	23	30.1	A.
30	23	48.6	E.

TRABANT IV

	h	m	
Jan. 14	3	8.6	E.
14	5	29.0	A.
30	21	9.3	E.
30	23	43.6	A.
Febr. 16	15	11.0	E.
16	17	57.8	A.
März 5	9	13.8	E.
5	12	12.3	A.
22	3	16.9	E
22	6	25.9	A.
April 7	21	19.9	E.
8	0	38.6	A.
24	15	23.5	E.
24	18	51.5	A.
Mai 11	9	26.7	E.
11	13	3.0	A.
28	3	29.4	E.
28	7	13.6	A.
Juni 13	21	32.5	E.
14	1	24.0	A.
Aug. 19	21	38.8	E.
20	1	54.8	A.
Sept. 5	15	39.0	E.
5	19	59.9	A.
22	9	39.5	E.
22	14	5.1	A.
Okt. 9	3	38.9	E.
9	8	9.0	A.
25	21	38.1	E.
26	2	12.1	A.
Nov. 11	15	38.0	E.
11	20	15.3	A.
28	9	36.9	E.
28	14	17.6	A.
Dez. 15	3	36.1	E.
15	8	19.5	A.
31	21	36.4	E.

Mittlere Zeit Greenwich		α	β	p_a	a	b	U'	B'	P'
1919		"	"	"	"	"	°	°	°
Jan.	−2.5	19.47	17.52	−0.03	43.87	−8.11	337.967	−12.713	−25.886
	+1.5	19.59	17.63	0.03	44.13	8.23	338.102	12.655	25.912
	5.5	19.70	17.73	0.02	44.37	8.35	338.237	12.597	25.938
	9.5	19.80	17.82	0.02	44.60	8.47	338.372	12.539	25.964
	13.5	19.89	17.90	0.02	44.81	8.59	338.507	12.480	25.990
	17.5	19.98	17.98	−0.02	45.00	−8.72	338.641	−12.422	−26.016
	21.5	20.06	18.05	0.01	45.17	8.85	338.776	12.364	26.042
	25.5	20.12	18.11	0.01	45.31	8.99	338.910	12.306	26.067
	29.5	20.17	18.15	0.00	45.43	9.12	339.044	12.247	26.093
Febr.	2.5	20.21	18.19	0.00	45.52	9.26	339.178	12.189	26.118
	6.5	20.24	18.22	−0.00	45.58	−9.39	339.312	−12.130	−26.143
	10.5	20.26	18.24	0.00	45.61	9.51	339.446	12.072	26.168
☍	14.5	20.26	18.24	0.00	45.62	9.63	339.580	12.013	26.193
	18.5	20.25	18.24	0.00	45.61	9.74	339.714	11.955	26.217
	22.5	20.23	18.23	0.00	45.57	9.84	339.848	11.896	26.241
	26.5	20.20	18.20	+0.00	45.50	−9.93	339.982	−11.838	−26.265
März	2.5	20.16	18.16	0.01	45.40	10.02	340.116	11.779	26.289
	6.5	20.10	18.11	0.01	45.27	10.09	340.249	11.720	26.313
	10.5	20.03	18.05	0.01	45.12	10.15	340.383	11.661	26.337
	14.5	19.96	17.99	0.02	44.95	10.20	340.516	11.602	26.360
	18.5	19.87	17.91	+0.02	44.76	−10.24	340.649	−11.543	−26.383
	22.5	19.77	17.83	0.02	44.55	10.26	340.782	11.484	26.406
	26.5	19.67	17.74	0.03	44.31	10.27	340.915	11.425	26.429
	30.5	19.56	17.64	0.03	44.06	10.27	341.048	11.366	26.452
April	3.5	19.44	17.54	0.03	43.80	10.26	341.181	11.307	26.475
	7.5	19.32	17.43	+0.04	43.53	−10.23	341.314	−11.248	−26.497
	11.5	19.19	17.32	0.04	43.25	10.19	341.447	11.189	26.519
	15.5	19.07	17.20	0.04	42.96	10.14	341.580	11.130	26.541
	19.5	18.94	17.08	0.05	42.67	10.08	341.713	11.071	26.563
	23.5	18.81	16.96	0.05	42.37	10.01	341.845	11.011	26.585
	27.5	18.68	16.84	+0.05	42.07	−9.93	341.978	−10.952	−26.607
Mai	1.5	18.54	16.72	0.05	41.76	9.84	342.110	10.893	26.628
	5.5	18.40	16.60	0.05	41.45	9.74	342.242	10.834	26.650
	9.5	18.27	16.48	0.05	41.15	9.64	342.374	10.774	26.671
	13.5	18.14	16.36	0.05	40.85	9.53	342.506	10.715	26.692
	17.5	18.01	16.24	+0.05	40.56	−9.41	342.638	−10.655	−26.713
	21.5	17.88	16.12	0.05	40.27	9.29	342.770	10.595	26.734
	25.5	17.75	16.01	0.05	39.99	9.16	342.902	10.535	26.755
	29.5	17.63	15.90	0.05	39.72	9.03	343.034	10.476	26.776
Juni	2.5	17.51	15.79	0.05	39.45	8.89	343.166	10.416	26.796
	6.5	17.40	15.68	+0.05	39.19	−8.75	343.298	−10.356	−26.816
	10.5	17.29	15.58	0.04	38.94	8.61	343.429	10.296	26.836
	14.5	17.18	15.48	0.04	38.71	8.46	343.561	10.236	26.856
	18.5	17.08	15.39	0.04	38.48	8.31	343.692	10.176	26.875
	22.5	16.98	15.30	0.03	38.26	8.16	343.823	10.116	26.895
	26.5	16.89	15.22	+0.03	38.06	−8.01	343.954	−10.056	−26.914
	30.5	16.81	15.14	0.03	37.87	7.86	344.086	9.996	26.933

Mittlere Zeit Greenwich	α	β	p_a	a	b	U'	B'	P'
1919	"	"	"	"	"	°	°	°
Juni 30.5	16.81	15.14	+0.03	37.87	−7.86	344.086	−9.996	−26.933
Juli 4.5	16.73	15.07	0.02	37.69	7.70	344.217	9.936	26.952
8.5	16.66	15.00	0.02	37.52	7.54	344.348	9.876	26.971
12.5	16.59	14.94	0.02	37.37	7.39	344.479	9.815	26.990
16.5	16.53	14.88	0.01	37.23	7.23	344.610	9.755	27.009
20.5	16.47	14.83	+0.01	37.10	−7.08	344.741	−9.694	−27.027
24.5	16.42	14.78	0.01	36.98	6.92	344.872	9.634	27.045
28.5	16.37	14.74	0.01	36.88	6.77	345.003	9.573	27.063
Aug. 1.5	16.33	14.70	0.01	36.79	6.62	345.134	9.513	27.081
5.5	16.30	14.66	0.00	36.71	6.47	345.265	9.452	27.099
9.5	16.27	14.63	+0.00	36.65	−6.32	345.396	−9.392	−27.117
13.5	16.25	14.61	0.00	36.60	6.17	345.526	9.331	27.134
17.5	16.23	14.59	0.00	36.56	6.02	345.657	9.271	27.151
21.5	16.22	14.58	0.00	36.54	5.87	345.787	9.210	27.168
☌ 25.5	16.22	14.58	0.00	36.54	5.72	345.917	9.149	27.185
29.5	16.22	14.58	−0.00	36.54	−5.58	346.047	−9.088	−27.202
Sept. 2.5	16.23	14.58	0.00	36.56	5.44	346.177	9.028	27.219
6.5	16.24	14.59	0.00	36.60	5.30	346.307	8.967	27.235
10.5	16.26	14.61	0.00	36.65	5.16	346.437	8.906	27.252
14.5	16.29	14.63	0.00	36.71	5.03	346.567	8.845	27.268
18.5	16.33	14.66	−0.01	36.78	−4.90	346.697	−8.785	−27.284
22.5	16.37	14.69	0.01	36.87	4.78	346.826	8.724	27.300
26.5	16.42	14.73	0.01	36.97	4.66	346.956	8.663	27.316
30.5	16.47	14.77	0.01	37.09	4.54	347.085	8.602	27.331
Okt. 4.5	16.53	14.82	0.02	37.22	4.42	347.215	8.542	27.346
8.5	16.59	14.88	−0.02	37.36	−4.31	347.344	−8.481	−27.361
12.5	16.66	14.94	0.02	37.52	4.20	347.473	8.420	27.376
16.5	16.73	15.01	0.02	37.69	4.10	347.602	8.359	27.391
20.5	16.81	15.08	0.03	37.87	4.01	347.731	8.299	27.406
24.5	16.90	15.16	0.03	38.07	3.92	347.860	8.238	27.420
28.5	16.99	15.24	−0.03	38.27	−3.84	347.989	−8.177	−27.434
Nov. 1.5	17.09	15.33	0.04	38.49	3.76	348.118	8.116	27.448
5.5	17.19	15.42	0.04	38.72	3.69	348.247	8.055	27.462
9.5	17.30	15.51	0.04	38.96	3.62	348.376	7.994	27.476
13.5	17.41	15.61	0.04	39.21	3.56	348.505	7.933	27.490
17.5	17.53	15.71	−0.05	39.47	−3.51	348.633	−7.872	−27.503
21.5	17.65	15.82	0.05	39.74	3.47	348.762	7.811	27.517
25.5	17.77	15.93	0.05	40.02	3.43	348.890	7.750	27.530
29.5	17.89	16.04	0.05	40.31	3.41	349.019	7.689	27.543
Dez. 3.5	18.02	16.16	0.05	40.60	3.39	349.147	7.628	27.556
7.5	18.15	16.27	−0.05	40.89	−3.39	349.275	−7.567	−27.569
11.5	18.28	16.39	0.05	41.18	3.39	349.403	7.506	27.582
15.5	18.41	16.50	0.05	41.47	3.40	349.531	7.445	27.595
19.5	18.54	16.62	0.05	41.77	3.42	349.659	7.383	27.607
23.5	18.67	16.74	0.05	42.07	3.46	349.787	7.322	27.619
27.5	18.80	16.86	−0.04	42.36	−3.50	349.915	−7.260	−27.631
31.5	18.93	16.98	0.04	42.65	3.55	350.043	7.198	27.643

Mittlere Zeit Greenwich	U	B	P	Mittlere Zeit Greenwich	U	B	P
1919				1919			
Jan. −0.5	24°668	−10°711	−6°394	April 1.5	19°148	−13°510	−6°714
+1.5	24.600	10.753	6.398	3.5	19.080	13.541	6.717
3.5	24.525	10.798	6.403	5.5	19.017	13.567	6.720
5.5	24.444	10.845	6.408	7.5	18.961	13.591	6.723
7.5	24.357	10.895	6.414	9.5	18.912	13.611	6.725
9.5	24.264	−10.948	−6.420	11.5	18.869	−13.628	−6.727
11.5	24.166	11.003	6.427	13.5	18.832	13.642	6.729
13.5	24.063	11.060	6.434	15.5	18.802	13.654	6.731
15.5	23.955	11.119	6.441	17.5	18.779	13.663	6.732
17.5	23.842	11.181	6.448	19.5	18.761	13.669	6.732
19.5	23.725	−11.245	−6.455	21.5	18.750	−13.672	−6.733
21.5	23.604	11.310	6.462	23.5	18.746	13.671	6.733
23.5	23.479	11.377	6.469	25.5	18.749	13.667	6.733
25.5	23.351	11.446	6.477	27.5	18.758	13.659	6.732
27.5	23.220	11.516	6.485	29.5	18.774	13.648	6.731
29.5	23.085	−11.587	−6.493	Mai 1.5	18.796	−13.635	−6.730
31.5	22.947	11.659	6.501	3.5	18.825	13.618	6.728
Febr. 2.5	22.807	11.731	6.510	5.5	18.861	13.599	6.726
4.5	22.664	11.804	6.518	7.5	18.903	13.576	6.724
6.5	22.520	11.878	6.526	9.5	18.951	13.551	6.721
8.5	22.375	−11.952	−6.534	11.5	19.006	−13.522	−6.718
10.5	22.228	12.027	6.543	13.5	19.068	13.491	6.715
12.5	22.080	12.102	6.552	15.5	19.135	13.457	6.712
14.5	21.933	12.177	6.561	17.5	19.208	13.420	6.708
16.5	21.786	12.251	6.569	19.5	19.287	13.380	6.704
18.5	21.639	−12.325	−6.578	21.5	19.371	−13.338	−6.699
20.5	21.492	12.397	6.586	23.5	19.461	13.293	6.694
22.5	21.347	12.469	6.595	25.5	19.558	13.245	6.689
24.5	21.203	12.540	6.603	27.5	19.660	13.194	6.683
26.5	21.060	12.610	6.611	29.5	19.769	13.140	6.677
28.5	20.918	−12.679	−6.619	31.5	19.883	−13.084	−6.671
März 2.5	20.779	12.746	6.626	Juni 2.5	20.003	13.025	6.665
4.5	20.642	12.812	6.634	4.5	20.127	12.964	6.658
6.5	20.508	12.876	6.641	6.5	20.257	12.901	6.650
8.5	20.378	12.938	6.648	8.5	20.391	12.836	6.643
10.5	20.251	−12.999	−6.655	10.5	20.530	−12.768	−6.635
12.5	20.127	13.058	6.662	12.5	20.674	12.698	6.627
14.5	20.008	13.114	6.668	14.5	20.822	12.625	6.619
16.5	19.893	13.168	6.674	16.5	20.975	12.550	6.611
18.5	19.782	13.219	6.680	18.5	21.133	12.473	6.602
20.5	19.676	−13.268	−6.686	20.5	21.295	−12.394	−6.593
22.5	19.574	13.315	6.691	22.5	21.461	12.312	6.584
24.5	19.478	13.359	6.696	24.5	21.631	12.229	6.575
26.5	19.387	13.401	6.701	26.5	21.804	12.144	6.565
28.5	19.302	13.440	6.706	28.5	21.981	12.057	6.554
30.5	19.222	−13.477	−6.710	30.5	22.162	−11.969	−6.543
April 1.5	19.148	13.510	6.714	Juli 2.5	22.346	11.879	6.532

Mittlere Zeit Greenwich	U	B	P
1919			
Juli 2.5	22°.346	−11°.879	−6°.532
4.5	22.533	11.787	6.521
6.5	22.724	11.693	6.510
8.5	22.918	11.598	6.498
10.5	23.115	11.502	6.487
12.5	23.314	−11.404	−6.475
14.5	23.516	11.305	6.463
16.5	23.721	11.205	6.451
18.5	23.928	11.104	6.439
20.5	24.137	11.001	6.426
22.5	24.349	−10.897	−6.413
24.5	24.563	10.793	6.399
26.5	24.779	10.687	6.386
28.5	24.997	10.580	6.372
30.5	25.217	10.472	6.359
Aug. 1.5	25.437	−10.363	−6.345
3.5	25.659	10.253	6.332
5.5	25.882	10.142	6.318
7.5	26.106	10.031	6.304
9.5	26.332	9.919	6.289
11.5	26.559	− 9.807	−6.274
13.5	26.786	9.694	6.259
15.5	27.014	9.581	6.244
17.5	27.243	9.467	6.229
19.5	27.472	9.354	6.214
21.5	27.702	− 9.240	−6.199
23.5	27.932	9.127	6.184
25.5	28.162	9.013	6.168
27.5	28.392	8.899	6.153
29.5	28.621	8.785	6.137
31.5	28.850	− 8.671	−6.122
Sept. 2.5	29.078	8.557	6.106
4.5	29.305	8.444	6.091
6.5	29.532	8.331	6.075
8.5	29.758	8.218	6.060
10.5	29.983	− 8.106	−6.044
12.5	30.208	7.995	6.028
14.5	30.431	7.884	6.012
16.5	30.653	7.774	5.997
18.5	30.873	7.664	5.982
20.5	31.092	− 7.556	−5.967
22.5	31.309	7.448	5.951
24.5	31.524	7.341	5.936
26.5	31.737	7.236	5.921
28.5	31.948	7.132	5.906
30.5	32.157	− 7.029	−5.890
Okt. 2.5	32.363	6.927	5.875

Mittlere Zeit Greenwich	U	B	P
1919			
Okt. 2.5	32°.363	−6°.927	−5°.875
4.5	32.567	6.827	5.860
6.5	32.769	6.728	5.845
8.5	32.967	6.631	5.830
10.5	33.162	6.535	5.815
12.5	33.355	−6.441	−5.801
14.5	33.545	6.348	5.787
16.5	33.732	6.257	5.773
18.5	33.915	6.168	5.760
20.5	34.095	6.080	5.747
22.5	34.270	−5.994	−5.734
24.5	34.442	5.911	5.721
26.5	34.610	5.830	5.708
28.5	34.773	5.752	5.696
30.5	34.932	5.676	5.683
Nov. 1.5	35.087	−5.602	−5.671
3.5	35.237	5.531	5.660
5.5	35.383	5.462	5.649
7.5	35.524	5.395	5.638
9.5	35.661	5.331	5.628
11.5	35.793	−5.270	−5.618
13.5	35.919	5.211	5.609
15.5	36.039	5.155	5.600
17.5	36.155	5.103	5.591
19.5	36.265	5.053	5.582
21.5	36.370	−5.007	−5.574
23.5	36.469	4.964	5.566
25.5	36.562	4.924	5.558
27.5	36.649	4.888	5.551
29.5	36.730	4.855	5.545
Dez. 1.5	36.805	−4.825	−5.539
3.5	36.875	4.798	5.534
5.5	36.938	4.773	5.529
7.5	36.995	4.752	5.525
9.5	37.046	4.734	5.521
11.5	37.090	−4.720	−5.517
13.5	37.128	4.710	5.514
15.5	37.159	4.703	5.512
17.5	37.184	4.700	5.510
19.5	37.202	4.700	5.508
21.5	37.213	−4.703	−5.508
23.5	37.218	4.710	5.508
25.5	37.216	4.720	5.508
27.5	37.207	4.735	5.508
29.5	37.192	4.753	5.510
31.5	37.170	−4.776	−5.512

MIMAS

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919	°	°		″
Jan. 1.5	209.970	159.81	1.47814	− 5.61
3.5	253.960	201.80	1.47936	− 5.65
5.5	297.949	243.79	1.48054	− 5.69
7.5	341.939	285.78	1.48167	− 5.73
9.5	25.928	327.77	1.48276	− 5.77
11.5	69.918	9.76	1.48380	− 5.82
13.5	113.907	51.75	1.48479	− 5.86
15.5	157.897	93.74	1.48573	− 5.90
17.5	201.886	135.73	1.48662	− 5.95
19.5	245.876	177.72	1.48746	− 5.99
21.5	289.865	219.71	1.48823	− 6.03
23.5	333.855	261.70	1.48895	− 6.08
25.5	17.844	303.69	1.48961	− 6.12
27.5	61.834	345.68	1.49021	− 6.17
29.5	105.823	27.67	1.49075	− 6.22
31.5	149.813	69.66	1.49122	− 6.27
Febr. 2.5	193.802	111.65	1.49163	− 6.31
4.5	237.792	153.64	1.49198	− 6.35
6.5	281.781	195.62	1.49226	− 6.39
8.5	325.771	237.61	1.49247	− 6.43
10.5	9.760	279.60	1.49262	− 6.47
12.5	53.750	321.59	1.49270	− 6.52
14.5	97.739	3.58	1.49271	− 6.56
16.5	141.728	45.57	1.49265	− 6.60
18.5	185.717	87.56	1.49253	− 6.64
20.5	229.707	129.55	1.49234	− 6.68
22.5	273.696	171.53	1.49209	− 6.71
24.5	317.685	213.52	1.49177	− 6.74
26.5	1.674	255.51	1.49139	− 6.77
28.5	45.664	297.50	1.49094	− 6.80
März 2.5	89.653	339.49	1.49043	− 6.82
4.5	133.642	21.48	1.48986	− 6.85
6.5	177.631	63.47	1.48923	− 6.87
8.5	221.621	105.46	1.48854	− 6.90
10.5	265.610	147.45	1.48779	− 6.92
12.5	309.599	189.44	1.48699	− 6.94
14.5	353.588	231.43	1.48613	− 6.95
16.5	37.578	273.42	1.48523	− 6.96
18.5	81.567	315.41	1.48427	− 6.97
20.5	125.556	357.40	1.48325	− 6.98

MIMAS

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919	°	°		″
März 20.5	125.556	357.40	1.48325	− 6.98
22.5	169.545	39.39	1.48218	− 6.99
24.5	213.535	81.38	1.48107	− 7.00
26.5	257.524	123.36	1.47992	− 7.00
28.5	301.513	165.35	1.47873	− 7.00
30.5	345.502	207.34	1.47750	− 7.00
April 1.5	29.492	249.33	1.47623	− 7.00
3.5	73.481	291.32	1.47492	− 6.99
5.5	117.470	333.31	1.47358	− 6.98
7.5	161.459	15.30	1.47221	− 6.97
9.5	205.449	57.28	1.47081	− 6.96
11.5	249.438	99.27	1.46939	− 6.94
13.5	293.427	141.26	1.46794	− 6.93
15.5	337.416	183.25	1.46647	− 6.91
17.5	21.405	225.24	1.46497	− 6.89
19.5	65.394	267.23	1.46346	− 6.87
21.5	109.383	309.22	1.46194	− 6.85
23.5	153.372	351.21	1.46040	− 6.82
25.5	197.361	33.20	1.45885	− 6.80
27.5	241.350	75.19	1.45729	− 6.77
29.5	285.339	117.18	1.45572	− 6.74
Mai 1.5	329.328	159.17	1.45414	− 6.71
3.5	13.317	201.16	1.45256	− 6.68
5.5	57.306	243.15	1.45097	− 6.64
7.5	101.295	285.14	1.44938	− 6.61
9.5	145.284	327.13	1.44780	− 6.57
11.5	189.274	9.12	1.44622	− 6.53
13.5	233.263	51.10	1.44465	− 6.49
15.5	277.252	93.09	1.44308	− 6.45
17.5	321.241	135.08	1.44151	− 6.41
19.5	5.230	177.07	1.43995	− 6.37
21.5	49.219	219.06	1.43840	− 6.33
23.5	93.208	261.05	1.43687	− 6.29
25.5	137.197	303.04	1.43536	− 6.25
27.5	181.186	345.02	1.43386	− 6.20
29.5	225.175	27.01	1.43238	− 6.16
31.5	269.164	69.00	1.43092	− 6.11
Juni 2.5	313.153	110.99	1.42947	− 6.06
4.5	357.142	152.98	1.42804	− 6.01
6.5	41.131	194.97	1.42663	− 5.96

MIMAS

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919	°	°		"
Juni 6.5	41.131	194.97	1.42663	— 5.96
8.5	85.120	236.96	1.42524	— 5.91
10.5	129.108	278.95	1.42388	— 5.86
Okt. 24.5	240.330	254.16	1.41396	— 2.67
26.5	284.319	296.15	1.41513	— 2.64
28.5	328.307	338.14	1.41632	— 2.61
30.5	12.295	20.13	1.41754	— 2.58
Nov. 1.5	56.283	62.12	1.41879	— 2.56
3.5	100.272	104.10	1.42007	— 2.53
5.5	144.260	146.09	1.42138	— 2.51
7.5	188.248	188.08	1.42271	— 2.49
9.5	232.236	230.07	1.42407	— 2.47
11.5	276.224	272.06	1.42545	— 2.45
13.5	320.212	314.05	1.42685	— 2.43
15.5	4.201	356.04	1.42827	— 2.41
17.5	48.189	38.03	1.42972	— 2.39
19.5	92.178	80.02	1.43119	— 2.37
21.5	136.166	122.00	1.43267	— 2.36
23.5	180.154	163.99	1.43416	— 2.35
25.5	224.142	205.98	1.43567	— 2.34
27.5	268.130	247.97	1.43719	— 2.33
29.5	312.118	289.95	1.43873	— 2.32
Dez. 1.5	356.106	331.94	1.44028	— 2.31
3.5	40.094	13.93	1.44183	— 2.31
5.5	84.082	55.92	1.44339	— 2.31
7.5	128.070	97.90	1.44495	— 2.31
9.5	172.058	139.89	1.44652	— 2.31
11.5	216.047	181.88	1.44809	— 2.31
13.5	260.035	223.87	1.44965	— 2.31
15.5	304.023	265.86	1.45120	— 2.32
17.5	348.011	307.84	1.45275	— 2.32
19.5	31.999	349.83	1.45430	— 2.33
21.5	75.988	31.82	1.45584	— 2.34
23.5	119.976	73.81	1.45736	— 2.35
25.5	163.964	115.80	1.45887	— 2.36
27.5	207.952	157.79	1.46037	— 2.38
29.5	251.940	199.78	1.46185	— 2.40
31.5	295.927	241.76	1.46332	— 2.42

ENCELADUS

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919	°	°		"
Jan. 1.5	152.996	258.2	1.58635	— 7.20
3.5	318.461	63.0	1.58757	— 7.25
5.5	123.925	227.8	1.58875	— 7.30
7.5	289.390	32.6	1.58988	— 7.35
9.5	94.855	197.4	1.59097	— 7.41
11.5	260.320	2.1	1.59201	— 7.46
13.5	65.784	166.9	1.59300	— 7.52
15.5	231.249	331.7	1.59394	— 7.57
17.5	36.714	136.5	1.59483	— 7.63
19.5	202.179	301.3	1.59567	— 7.69
21.5	7.643	106.1	1.59644	— 7.75
23.5	173.108	270.9	1.59716	— 7.80
25.5	338.573	75.6	1.59782	— 7.86
27.5	144.037	240.4	1.59842	— 7.92
29.5	309.502	45.2	1.59896	— 7.98
31.5	114.967	210.0	1.59943	— 8.03
Febr. 2.5	280.431	14.8	1.59984	— 8.09
4.5	85.896	179.6	1.60019	— 8.15
6.5	251.360	344.4	1.60047	— 8.21
8.5	56.825	149.2	1.60068	— 8.27
10.5	222.290	314.0	1.60083	— 8.32
12.5	27.754	118.7	1.60091	— 8.37
14.5	193.219	283.5	1.60092	— 8.42
16.5	358.684	88.3	1.60086	— 8.46
18.5	164.148	253.1	1.60074	— 8.51
20.5	329.613	57.9	1.60055	— 8.55
22.5	135.077	222.7	1.60030	— 8.60
24.5	300.542	27.5	1.59998	— 8.64
26.5	106.007	192.2	1.59960	— 8.68
28.5	271.471	357.0	1.59915	— 8.72
März 2.5	76.936	161.8	1.59864	— 8.76
4.5	242.401	326.6	1.59807	— 8.79
6.5	47.865	131.4	1.59744	— 8.82
8.5	213.330	296.2	1.59675	— 8.85
10.5	18.795	101.0	1.59600	— 8.87
12.5	184.259	265.8	1.59520	— 8.90
14.5	349.724	70.5	1.59434	— 8.92
16.5	155.189	235.3	1.59344	— 8.94
18.5	320.653	40.1	1.59248	— 8.95
20.5	126.118	204.9	1.59146	— 8.96

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
ENCELADUS				
1919				
März 20.5	126°.118	204°.9	1.59146	−8″.96
22.5	291.583	9.7	1.59039	−8.97
24.5	97.047	174.5	1.58928	−8.97
26.5	262.512	339.3	1.58813	−8.97
28.5	67.976	144.1	1.58694	−8.98
30.5	233.441	308.8	1.58571	−8.98
April 1.5	38.905	113.6	1.58444	−8.97
3.5	204.370	278.4	1.58313	−8.97
5.5	9.835	83.2	1.58179	−8.96
7.5	175.299	248.0	1.58042	−8.94
9.5	340.763	52.8	1.57902	−8.93
11.5	146.228	217.6	1.57760	−8.91
13.5	311.692	22.4	1.57615	−8.89
15.5	117.157	187.2	1.57468	−8.87
17.5	282.622	352.0	1.57318	−8.84
19.5	88.086	156.8	1.57167	−8.81
21.5	253.550	321.6	1.57015	−8.78
23.5	59.015	126.4	1.56861	−8.75
25.5	224.479	291.2	1.56706	−8.72
27.5	29.944	96.0	1.56550	−8.68
29.5	195.408	260.8	1.56393	−8.65
Mai 1.5	0.873	65.5	1.56235	−8.61
3.5	166.337	230.3	1.56077	−8.57
5.5	331.802	35.1	1.55918	−8.52
7.5	137.267	199.9	1.55759	−8.48
9.5	302.731	4.7	1.55601	−8.43
11.5	108.195	169.5	1.55443	−8.38
13.5	273.660	334.3	1.55286	−8.33
15.5	79.124	139.0	1.55129	−8.28
17.5	244.588	303.8	1.54972	−8.23
19.5	50.053	108.6	1.54816	−8.18
21.5	215.517	273.4	1.54661	−8.12
23.5	20.982	78.2	1.54508	−8.07
25.5	186.446	243.0	1.54357	−8.01
27.5	351.910	47.8	1.54207	−7.95
29.5	157.375	212.6	1.54059	−7.89
31.5	322.839	17.4	1.53913	−7.83
Juni 2.5	128.304	182.1	1.53768	−7.77
4.5	293.768	346.9	1.53625	−7.71
6.5	99.232	151.7	1.53484	−7.65

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
ENCELADUS				
1919				
Juni 6.5	99°.232	151°.7	1.53484	−7″.65
8.5	264.697	316.5	1.53345	−7.59
10.5	70.161	121.3	1.53209	−7.52
Okt. 24.5	161.707	166.8	1.52217	−3.43
26.5	327.170	331.6	1.52334	−3.39
28.5	132.634	136.4	1.52453	−3.35
30.5	298.097	301.2	1.52575	−3.32
Nov. 1.5	103.561	106.0	1.52700	−3.28
3.5	269.025	270.8	1.52828	−3.25
5.5	74.488	75.6	1.52959	−3.22
7.5	239.951	240.4	1.53092	−3.19
9.5	45.415	45.1	1.53228	−3.16
11.5	210.878	209.9	1.53366	−3.14
13.5	16.341	14.7	1.53506	−3.11
15.5	181.805	179.5	1.53648	−3.09
17.5	347.268	344.3	1.53793	−3.07
19.5	152.731	149.1	1.53940	−3.05
21.5	318.195	313.9	1.54088	−3.03
23.5	123.658	118.6	1.54237	−3.02
25.5	289.122	283.4	1.54388	−3.00
27.5	94.585	88.2	1.54540	−2.99
29.5	260.048	253.0	1.54694	−2.98
Dez. 1.5	65.512	57.8	1.54849	−2.97
3.5	230.975	222.6	1.55004	−2.96
5.5	36.438	27.4	1.55160	−2.96
7.5	201.902	192.2	1.55316	−2.96
9.5	7.365	357.0	1.55473	−2.96
11.5	172.829	161.8	1.55630	−2.96
13.5	338.292	326.6	1.55786	−2.97
15.5	143.755	131.4	1.55941	−2.97
17.5	309.219	296.2	1.56096	−2.98
19.5	114.682	100.9	1.56251	−2.99
21.5	280.145	265.7	1.56405	−3.00
23.5	85.608	70.5	1.56557	−3.02
25.5	251.071	235.3	1.56708	−3.04
27.5	56.534	40.0	1.56858	−3.06
29.5	221.997	204.8	1.57006	−3.08
31.5	27.460	9.6	1.57153	−3.10

TETHYS

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919				
Jan. 1.5	46.510		1.67905	− 8.91
3.5	67.906		1.68027	− 8.97
5.5	89.301		1.68145	− 9.03
7.5	110.697		1.68258	− 9.10
9.5	132.093		1.68367	− 9.16
11.5	153.488		1.68471	− 9.23
13.5	174.884		1.68570	− 9.30
15.5	196.280		1.68664	− 9.37
17.5	217.675		1.68753	− 9.44
19.5	239.071		1.68837	− 9.51
21.5	260.467		1.68914	− 9.58
23.5	281.862		1.68986	− 9.66
25.5	303.258		1.69052	− 9.73
27.5	324.653		1.69112	− 9.80
29.5	346.049		1.69166	− 9.87
31.5	7.445		1.69213	− 9.95
Febr. 2.5	28.840		1.69254	−10.02
4.5	50.236		1.69289	−10.09
6.5	71.632		1.69317	−10.15
8.5	93.027		1.69338	−10.22
10.5	114.423		1.69353	−10.28
12.5	135.818		1.69361	−10.35
14.5	157.214		1.69362	−10.41
16.5	178.610		1.69356	−10.48
18.5	200.005		1.69344	−10.53
20.5	221.401		1.69325	−10.59
22.5	242.796		1.69300	−10.64
24.5	264.192		1.69268	−10.70
26.5	285.588		1.69230	−10.75
28.5	306.984		1.69185	−10.80
März 2.5	328.379		1.69134	−10.84
4.5	349.775		1.69077	−10.88
6.5	11.170		1.69014	−10.92
8.5	32.566		1.68945	−10.95
10.5	53.961		1.68870	−10.98
12.5	75.357		1.68790	−11.01
14.5	96.752		1.68704	−11.03
16.5	118.148		1.68614	−11.06
18.5	139.544		1.68518	−11.08
20.5	160.940		1.68416	−11.09

TETHYS

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919				
März 20.5	160.940		1.68416	−11.09
22.5	182.336		1.68309	−11.10
24.5	203.732		1.68198	−11.11
26.5	225.127		1.68083	−11.11
28.5	246.523		1.67964	−11.11
30.5	267.919		1.67841	−11.11
April 1.5	289.314		1.67714	−11.11
3.5	310.710		1.67583	−11.10
5.5	332.106		1.67449	−11.09
7.5	353.501		1.67312	−11.07
9.5	14.897		1.67172	−11.05
11.5	36.292		1.67030	−11.03
13.5	57.688		1.66885	−11.00
15.5	79.083		1.66738	−10.97
17.5	100.479		1.66588	−10.94
19.5	121.875		1.66437	−10.91
21.5	143.271		1.66285	−10.88
23.5	164.666		1.66131	−10.84
25.5	186.062		1.65976	−10.80
27.5	207.457		1.65820	−10.75
29.5	228.853		1.65663	−10.70
Mai 1.5	250.249		1.65505	−10.65
3.5	271.644		1.65347	−10.60
5.5	293.040		1.65188	−10.55
7.5	314.436		1.65029	−10.50
9.5	335.831		1.64871	−10.44
11.5	357.227		1.64713	−10.38
13.5	18.623		1.64556	−10.31
15.5	40.019		1.64399	−10.25
17.5	61.415		1.64242	−10.19
19.5	82.810		1.64086	−10.12
21.5	104.206		1.63931	−10.05
23.5	125.602		1.63778	− 9.99
25.5	146.997		1.63627	− 9.92
27.5	168.393		1.63477	− 9.85
29.5	189.788		1.63329	− 9.77
31.5	211.184		1.63183	− 9.70
Juni 2.5	232.580		1.63038	− 9.62
4.5	253.976		1.62895	− 9.55
6.5	275.371		1.62754	− 9.47

TETHYS

Mittlere Zeit Greenwich	L	M	log $\frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta}$ sin B
1919	°			″
Juni 6.5	275.371		1.62754	− 9.47
8.5	296.767		1.62615	− 9.40
10.5	318.163		1.62479	− 9.32
Okt. 24.5	333.068		1.61487	− 4.24
26.5	354.464		1.61604	− 4.19
28.5	15.860		1.61723	− 4.15
30.5	37.255		1.61845	− 4.11
Nov. 1.5	58.651		1.61970	− 4.07
3.5	80.047		1.62098	− 4.03
5.5	101.442		1.62229	− 3.99
7.5	122.838		1.62362	− 3.95
9.5	144.233		1.62498	− 3.92
11.5	165.629		1.62636	− 3.88
13.5	187.025		1.62776	− 3.85
15.5	208.421		1.62918	− 3.82
17.5	229.816		1.63063	− 3.80
19.5	251.212		1.63210	− 3.77
21.5	272.607		1.63358	− 3.75
23.5	294.003		1.63507	− 3.73
25.5	315.398		1.63658	− 3.72
27.5	336.794		1.63810	− 3.70
29.5	358.190		1.63964	− 3.69
Dez. 1.5	19.586		1.64119	− 3.68
3.5	40.981		1.64274	− 3.67
5.5	62.377		1.64430	− 3.67
7.5	83.772		1.64586	− 3.67
9.5	105.168		1.64743	− 3.67
11.5	126.564		1.64900	− 3.67
13.5	147.960		1.65056	− 3.67
15.5	169.356		1.65211	− 3.68
17.5	190.752		1.65366	− 3.69
19.5	212.148		1.65521	− 3.70
21.5	233.544		1.65675	− 3.72
23.5	254.940		1.65827	− 3.74
25.5	276.336		1.65978	− 3.76
27.5	297.732		1.66128	− 3.78
29.5	319.127		1.66276	− 3.81
31.5	340.523		1.66423	− 3.84

DIONE

Mittlere Zeit Greenwich	L	M	log $\frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta}$ sin B
1919	°	°		″
Jan. 1.5	23.970	142.7	1.78652	−11.41
3.5	287.040	45.6	1.78774	−11.49
5.5	190.109	308.5	1.78892	−11.57
7.5	93.179	211.4	1.79005	−11.66
9.5	356.248	114.3	1.79114	−11.74
11.5	259.318	17.2	1.79218	−11.83
13.5	162.387	280.1	1.79317	−11.91
15.5	65.457	183.0	1.79411	−12.00
17.5	328.526	85.9	1.79500	−12.09
19.5	231.596	348.8	1.79584	−12.19
21.5	134.666	251.7	1.79661	−12.28
23.5	37.735	154.6	1.79733	−12.37
25.5	300.805	57.5	1.79799	−12.46
27.5	203.874	320.4	1.79859	−12.56
29.5	106.944	223.3	1.79913	−12.65
31.5	10.014	126.2	1.79960	−12.74
Febr. 2.5	273.083	29.1	1.80001	−12.83
4.5	176.153	292.0	1.80036	−12.92
6.5	79.222	194.9	1.80064	−13.01
8.5	342.292	97.8	1.80085	−13.10
10.5	245.361	0.7	1.80100	−13.18
12.5	148.431	263.6	1.80108	−13.26
14.5	51.500	166.5	1.80109	−13.34
16.5	314.569	69.4	1.80103	−13.42
18.5	217.639	332.3	1.80091	−13.50
20.5	120.709	235.2	1.80072	−13.57
22.5	23.779	138.1	1.80047	−13.64
24.5	286.848	41.0	1.80015	−13.71
26.5	189.918	303.9	1.79977	−13.77
28.5	92.988	206.8	1.79932	−13.83
März 2.5	356.057	109.7	1.79881	−13.88
4.5	259.127	12.6	1.79824	−13.93
6.5	162.196	275.5	1.79761	−13.98
8.5	65.266	178.3	1.79692	−14.03
10.5	328.336	81.2	1.79617	−14.07
12.5	231.405	344.1	1.79537	−14.11
14.5	134.475	247.0	1.79451	−14.14
16.5	37.545	149.9	1.79361	−14.17
18.5	300.614	52.8	1.79265	−14.19
20.5	203.684	315.7	1.79163	−14.21

DIONE

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919				
März 20.5	203°.684	315°.7	1.79163	−14″.21
22.5	106.753	218.6	1.79056	−14.22
24.5	9.823	121.5	1.78945	−14.23
26.5	272.893	24.4	1.78830	−14.23
28.5	175.962	287.3	1.78711	−14.23
30.5	79.032	190.2	1.78588	−14.23
April 1.5	342.102	93.1	1.78461	−14.23
3.5	245.171	356.0	1.78330	−14.22
5.5	148.241	258.9	1.78196	−14.20
7.5	51.310	161.8	1.78059	−14.18
9.5	314.380	64.7	1.77919	−14.16
11.5	217.449	327.6	1.77777	−14.12
13.5	120.519	230.5	1.77632	−14.09
15.5	23.588	133.4	1.77485	−14.06
17.5	286.658	36.3	1.77335	−14.02
19.5	189.727	299.2	1.77184	−13.97
21.5	92.797	202.1	1.77032	−13.93
23.5	355.866	105.0	1.76878	−13.88
25.5	258.936	8.0	1.76723	−13.82
27.5	162.006	270.9	1.76567	−13.77
29.5	65.075	173.8	1.76410	−13.71
Mai 1.5	328.145	76.7	1.76252	−13.65
3.5	231.215	339.6	1.76094	−13.58
5.5	134.284	242.5	1.75935	−13.51
7.5	37.354	145.4	1.75776	−13.44
9.5	300.423	48.3	1.75618	−13.37
11.5	203.493	311.2	1.75460	−13.29
13.5	106.563	214.1	1.75303	−13.21
15.5	9.632	117.0	1.75146	−13.13
17.5	272.702	19.9	1.74989	−13.05
19.5	175.772	282.8	1.74833	−12.96
21.5	78.841	185.7	1.74678	−12.88
23.5	341.911	88.6	1.74525	−12.79
25.5	244.981	351.5	1.74374	−12.70
27.5	148.051	254.3	1.74224	−12.61
29.5	51.120	157.2	1.74076	−12.52
31.5	314.190	60.1	1.73930	−12.42
Juni 2.5	217.260	323.0	1.73785	−12.33
4.5	120.329	225.9	1.73642	−12.23
6.5	23.399	128.8	1.73501	−12.13

DIONE

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919				
Juni 6.5	23°.399	128°.8	1.73501	−12″.13
8.5	286.468	31.7	1.73362	−12.03
10.5	189.538	294.6	1.73226	−11.93
Okt. 24.5	78.274	171.9	1.72234	− 5.43
26.5	341.344	74.8	1.72351	− 5.37
28.5	244.413	337.7	1.72470	− 5.32
30.5	147.483	240.6	1.72592	− 5.26
Nov. 1.5	50.553	143.5	1.72717	− 5.21
3.5	313.623	46.4	1.72845	− 5.16
5.5	216.693	309.3	1.72976	− 5.11
7.5	119.762	212.2	1.73109	− 5.06
9.5	22.832	115.1	1.73245	− 5.02
11.5	285.901	18.0	1.73383	− 4.98
13.5	188.971	280.9	1.73523	− 4.94
15.5	92.041	183.8	1.73665	− 4.90
17.5	355.110	86.7	1.73810	− 4.87
19.5	258.180	349.6	1.73957	− 4.84
21.5	161.250	252.5	1.74105	− 4.81
23.5	64.319	155.4	1.74254	− 4.78
25.5	327.389	58.3	1.74405	− 4.76
27.5	230.459	321.2	1.74557	− 4.74
29.5	133.529	224.1	1.74711	− 4.73
Dez. 1.5	36.598	127.0	1.74866	− 4.72
3.5	299.668	29.9	1.75021	− 4.71
5.5	202.738	292.8	1.75177	− 4.70
7.5	105.808	195.7	1.75333	− 4.70
9.5	8.878	98.6	1.75490	− 4.69
11.5	271.948	1.5	1.75647	− 4.69
13.5	175.017	264.4	1.75803	− 4.70
15.5	78.087	167.3	1.75958	− 4.71
17.5	341.157	70.2	1.76113	− 4.73
19.5	244.227	333.1	1.76268	− 4.74
21.5	147.297	236.0	1.76422	− 4.76
23.5	50.367	138.9	1.76574	− 4.78
25.5	313.436	41.8	1.76725	− 4.81
27.5	216.506	304.7	1.76875	− 4.84
29.5	119.576	207.6	1.77023	− 4.88
31.5	22.645	110.5	1.77170	− 4.92

RHEA

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919	°	°		″
Jan. 1.5	104.385	345.0	1.93156	−15.94
3.5	263.765	144.3	1.93278	−16.05
5.5	63.145	303.6	1.93396	−16.16
7.5	222.525	103.0	1.93509	−16.28
9.5	21.904	262.3	1.93618	−16.40
11.5	181.284	61.6	1.93722	−16.52
13.5	340.664	221.0	1.93821	−16.64
15.5	140.044	20.3	1.93915	−16.76
17.5	299.424	179.6	1.94004	−16.89
19.5	98.804	338.9	1.94088	−17.02
21.5	258.184	138.2	1.94165	−17.15
23.5	57.564	297.6	1.94237	−17.28
25.5	216.944	96.9	1.94303	−17.41
27.5	16.323	256.2	1.94363	−17.53
29.5	175.703	55.6	1.94417	−17.66
31.5	335.083	214.9	1.94464	−17.79
Febr. 2.5	134.463	14.2	1.94505	−17.92
4.5	293.843	173.5	1.94540	−18.04
6.5	93.223	332.8	1.94568	−18.16
8.5	252.603	132.2	1.94589	−18.28
10.5	51.983	291.5	1.94604	−18.40
12.5	211.363	90.8	1.94612	−18.52
14.5	10.743	250.2	1.94613	−18.63
16.5	170.123	49.5	1.94607	−18.74
18.5	329.503	208.8	1.94595	−18.85
20.5	128.883	8.1	1.94576	−18.95
22.5	288.263	167.4	1.94551	−19.05
24.5	87.643	326.8	1.94519	−19.14
26.5	247.022	126.1	1.94481	−19.23
28.5	46.402	285.4	1.94436	−19.31
März 2.5	205.782	84.8	1.94385	−19.39
4.5	5.162	244.1	1.94328	−19.46
6.5	164.542	43.4	1.94265	−19.53
8.5	323.922	202.7	1.94196	−19.59
10.5	123.302	2.0	1.94121	−19.65
12.5	282.682	161.4	1.94041	−19.70
14.5	82.062	320.7	1.93955	−19.74
16.5	241.442	120.0	1.93865	−19.78
18.5	40.822	279.4	1.93769	−19.81
20.5	200.202	78.7	1.93667	−19.84

RHEA

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919	°	°		″
März 20.5	200.202	78.7	1.93667	−19.84
22.5	359.582	238.0	1.93560	−19.86
24.5	158.962	37.3	1.93449	−19.87
26.5	318.342	196.6	1.93334	−19.88
28.5	117.722	356.0	1.93215	−19.88
30.5	277.102	155.3	1.93092	−19.88
April 1.5	76.482	314.6	1.92965	−19.87
3.5	235.862	114.0	1.92834	−19.85
5.5	35.242	273.3	1.92700	−19.83
7.5	194.622	72.6	1.92563	−19.80
9.5	354.002	231.9	1.92423	−19.77
11.5	153.382	31.2	1.92281	−19.73
13.5	312.762	190.6	1.92136	−19.68
15.5	112.142	349.9	1.91989	−19.63
17.5	271.521	149.2	1.91839	−19.57
19.5	70.901	308.6	1.91688	−19.51
21.5	230.281	107.9	1.91536	−19.45
23.5	29.661	267.2	1.91382	−19.38
25.5	189.041	66.5	1.91227	−19.31
27.5	348.421	225.8	1.91071	−19.23
29.5	147.801	25.2	1.90914	−19.14
Mai 1.5	307.181	184.5	1.90756	−19.05
3.5	106.561	343.8	1.90598	−18.96
5.5	265.941	143.2	1.90439	−18.87
7.5	65.321	302.5	1.90280	−18.77
9.5	224.701	101.8	1.90122	−18.67
11.5	24.081	261.1	1.89964	−18.56
13.5	183.461	60.4	1.89807	−18.45
15.5	342.841	219.8	1.89650	−18.34
17.5	142.221	19.1	1.89493	−18.22
19.5	301.601	178.4	1.89337	−18.10
21.5	100.981	337.8	1.89182	−17.98
23.5	260.361	137.1	1.89029	−17.86
25.5	59.741	296.4	1.88878	−17.74
27.5	219.121	95.7	1.88728	−17.61
29.5	18.501	255.0	1.88580	−17.48
31.5	177.881	54.4	1.88434	−17.35
Juni 2.5	337.261	213.7	1.88289	−17.21
4.5	136.640	13.0	1.88146	−17.08
6.5	296.020	172.3	1.88005	−16.94

RHEA

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919	°	°		"
Juni 6.5	296.020	172.3	1.88005	−16.94
8.5	95.400	331.6	1.87866	−16.80
10.5	254.780	130.9	1.87730	−16.66
Okt. 24.5	292.617	165.0	1.86738	− 7.59
26.5	91.997	324.4	1.86855	− 7.50
28.5	251.376	123.7	1.86974	− 7.42
30.5	50.756	283.0	1.87096	− 7.34
Nov. 1.5	210.136	82.3	1.87221	− 7.27
3.5	9.516	241.6	1.87349	− 7.20
5.5	168.896	41.0	1.87480	− 7.13
7.5	328.276	200.3	1.87613	− 7.07
9.5	127.656	359.6	1.87749	− 7.01
11.5	287.035	158.9	1.87887	− 6.95
13.5	86.415	318.3	1.88027	− 6.89
15.5	245.795	117.6	1.88169	− 6.84
17.5	45.175	276.9	1.88314	− 6.80
19.5	204.555	76.2	1.88461	− 6.75
21.5	3.935	235.5	1.88609	− 6.71
23.5	163.315	34.9	1.88758	− 6.68

RHEA

Mittlere Zeit Greenwich	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1919	°	°		"
Nov. 23.5	163.315	34.9	1.88758	− 6.68
25.5	322.695	194.2	1.88909	− 6.65
27.5	122.074	353.5	1.89061	− 6.62
29.5	281.454	152.9	1.89215	− 6.60
Dez. 1.5	80.834	312.2	1.89370	− 6.58
3.5	240.214	111.5	1.89525	− 6.57
5.5	39.594	270.8	1.89681	− 6.56
7.5	198.974	70.1	1.89837	− 6.56
9.5	358.354	229.5	1.89994	− 6.56
11.5	157.734	28.8	1.90151	− 6.56
13.5	317.115	188.1	1.90307	− 6.57
15.5	116.495	347.5	1.90462	− 6.58
17.5	275.875	146.8	1.90617	− 6.60
19.5	75.255	306.1	1.90772	− 6.63
21.5	234.635	105.4	1.90926	− 6.66
23.5	34.015	264.7	1.91078	− 6.69
25.5	193.395	64.1	1.91229	− 6.73
27.5	352.775	223.4	1.91379	− 6.77
29.5	152.155	22.7	1.91527	− 6.82
31.5	311.535	182.1	1.91674	− 6.87

M	Mimas ±(v−M)	Mimas log r/a	Enceladus ±(v−M)	Enceladus log r/a	Dione ±(v−M)	Dione log r/a	Rhea ±(v−M)	Rhea log r/a	M
0°	0.000°	9.99167	0.000°	9.99800	0.000°	9.99913	0.000°	9.99961	360°
2	0.078	9.99167	0.018	9.99800	0.008	9.99913	0.004	9.99961	358
4	0.156	9.99169	0.037	9.99800	0.016	9.99913	0.007	9.99961	356
6	0.233	9.99172	0.055	9.99801	0.024	9.99913	0.011	9.99961	354
8	0.310	9.99175	0.074	9.99802	0.032	9.99914	0.014	9.99961	352
10	0.387	9.99180	0.092	9.99803	0.040	9.99914	0.018	9.99961	350
12	0.463	9.99186	0.110	9.99804	0.048	9.99915	0.021	9.99962	348
14	0.539	9.99193	0.128	9.99806	0.056	9.99916	0.025	9.99962	346
16	0.614	9.99201	0.146	9.99808	0.063	9.99916	0.028	9.99962	344
18	0.688	9.99210	0.164	9.99810	0.071	9.99917	0.032	9.99963	342
20	0.762	9.99220	0.181	9.99812	0.079	9.99918	0.035	9.99963	340
22	0.834	9.99230	0.199	9.99814	0.086	9.99919	0.039	9.99964	338
24	0.905	9.99242	0.216	9.99817	0.093	9.99921	0.042	9.99964	336
26	0.975	9.99255	0.232	9.99820	0.101	9.99922	0.045	9.99965	334
28	1.044	9.99269	0.249	9.99823	0.108	9.99923	0.048	9.99966	332
30	1.111	9.99284	0.265	9.99827	0.115	9.99925	0.052	9.99966	330
32	1.177	9.99299	0.281	9.99830	0.122	9.99926	0.055	9.99967	328
34	1.242	9.99316	0.296	9.99834	0.128	9.99928	0.058	9.99968	326
36	1.305	9.99333	0.311	9.99838	0.135	9.99930	0.061	9.99968	324
38	1.366	9.99351	0.326	9.99842	0.141	9.99931	0.064	9.99969	322
40	1.425	9.99370	0.340	9.99847	0.148	9.99933	0.066	9.99970	320
42	1.483	9.99390	0.354	9.99852	0.154	9.99935	0.069	9.99971	318
44	1.538	9.99410	0.368	9.99856	0.159	9.99937	0.072	9.99972	316
46	1.592	9.99431	0.381	9.99861	0.165	9.99940	0.074	9.99973	314
48	1.644	9.99453	0.393	9.99866	0.171	9.99942	0.077	9.99974	312
50	1.693	9.99476	0.405	9.99872	0.176	9.99944	0.079	9.99975	310
52	1.741	9.99499	0.417	9.99877	0.181	9.99947	0.081	9.99976	308
54	1.786	9.99523	0.428	9.99883	0.186	9.99949	0.083	9.99977	306
56	1.829	9.99547	0.438	9.99889	0.190	9.99951	0.085	9.99978	304
58	1.870	9.99572	0.448	9.99895	0.195	9.99954	0.087	9.99979	302
60	1.908	9.99598	0.458	9.99901	0.199	9.99957	0.089	9.99980	300
62	1.944	9.99623	0.467	9.99907	0.203	9.99959	0.091	9.99982	298
64	1.977	9.99650	0.475	9.99913	0.206	9.99962	0.093	9.99983	296
66	2.008	9.99676	0.483	9.99919	0.210	9.99965	0.094	9.99984	294
68	2.036	9.99704	0.490	9.99926	0.213	9.99967	0.096	9.99985	292
70	2.062	9.99731	0.496	9.99932	0.216	9.99970	0.097	9.99987	290
72	2.086	9.99759	0.502	9.99939	0.218	9.99973	0.098	9.99988	288
74	2.106	9.99787	0.508	9.99946	0.220	9.99976	0.099	9.99989	286
76	2.124	9.99815	0.512	9.99952	0.222	9.99979	0.100	9.99991	284
78	2.140	9.99843	0.516	9.99959	0.224	9.99982	0.101	9.99992	282
80	2.153	9.99872	0.520	9.99966	0.226	9.99985	0.102	9.99993	280
82	2.163	9.99900	0.523	9.99973	0.227	9.99988	0.102	9.99995	278
84	2.170	9.99929	0.525	9.99980	0.228	9.99991	0.103	9.99996	276
86	2.175	9.99958	0.526	9.99987	0.229	9.99994	0.103	9.99997	274
88	2.177	9.99987	0.527	9.99994	0.229	9.99997	0.103	9.99999	272
90	2.177	0.00016	0.527	0.00001	0.229	0.00000	0.103	0.00000	270

M	Mimas		Enceladus		Dione		Rhea		M
	±(v−M)	log r/a	±(v−M)	log r/a	±(v−M)	log r/a	±(v−M)	log r/a	
90°	2°.177	0.00016	0°.527	0.00001	0°.229	0.00000	0°.103	0.00000	270°
92	2.174	0.00044	0.527	0.00008	0.229	0.00003	0.103	0.00001	268
94	2.168	0.00073	0.526	0.00015	0.229	0.00006	0.103	0.00003	266
96	2.159	0.00101	0.524	0.00022	0.228	0.00009	0.103	0.00004	264
98	2.148	0.00130	0.522	0.00029	0.227	0.00012	0.102	0.00005	262
100	2.135	0.00158	0.519	0.00035	0.226	0.00015	0.102	0.00007	260
102	2.119	0.00186	0.515	0.00042	0.224	0.00018	0.101	0.00008	258
104	2.100	0.00214	0.511	0.00049	0.222	0.00021	0.100	0.00009	256
106	2.079	0.00241	0.506	0.00056	0.220	0.00024	0.099	0.00011	254
108	2.055	0.00268	0.500	0.00062	0.218	0.00027	0.098	0.00012	252
110	2.029	0.00295	0.494	0.00069	0.215	0.00030	0.097	0.00013	250
112	2.000	0.00321	0.488	0.00075	0.212	0.00033	0.096	0.00015	248
114	1.969	0.00347	0.480	0.00082	0.209	0.00035	0.094	0.00016	246
116	1.936	0.00373	0.473	0.00088	0.206	0.00038	0.093	0.00017	244
118	1.901	0.00398	0.464	0.00094	0.202	0.00041	0.091	0.00018	242
120	1.863	0.00422	0.455	0.00100	0.198	0.00044	0.089	0.00019	240
122	1.823	0.00446	0.446	0.00106	0.194	0.00046	0.087	0.00021	238
124	1.781	0.00469	0.436	0.00112	0.190	0.00049	0.085	0.00022	236
126	1.737	0.00492	0.425	0.00118	0.185	0.00051	0.083	0.00023	234
128	1.691	0.00514	0.414	0.00123	0.180	0.00053	0.081	0.00024	232
130	1.643	0.00536	0.402	0.00129	0.175	0.00056	0.079	0.00025	230
132	1.593	0.00557	0.390	0.00134	0.170	0.00058	0.077	0.00026	228
134	1.541	0.00577	0.378	0.00139	0.164	0.00060	0.074	0.00027	226
136	1.487	0.00597	0.365	0.00144	0.159	0.00062	0.072	0.00028	224
138	1.431	0.00616	0.351	0.00148	0.153	0.00065	0.069	0.00029	222
140	1.374	0.00634	0.337	0.00153	0.147	0.00067	0.066	0.00030	220
142	1.316	0.00651	0.323	0.00157	0.141	0.00068	0.064	0.00031	218
144	1.256	0.00668	0.308	0.00162	0.134	0.00070	0.061	0.00032	216
146	1.194	0.00683	0.293	0.00166	0.128	0.00072	0.058	0.00032	214
148	1.131	0.00698	0.278	0.00169	0.121	0.00074	0.055	0.00033	212
150	1.067	0.00713	0.262	0.00173	0.114	0.00075	0.052	0.00034	210
152	1.001	0.00726	0.246	0.00176	0.107	0.00077	0.048	0.00034	208
154	0.934	0.00738	0.230	0.00179	0.100	0.00078	0.045	0.00035	206
156	0.867	0.00750	0.213	0.00182	0.093	0.00079	0.042	0.00036	204
158	0.798	0.00760	0.196	0.00185	0.086	0.00080	0.039	0.00036	202
160	0.728	0.00770	0.179	0.00187	0.078	0.00081	0.035	0.00037	200
162	0.658	0.00779	0.162	0.00190	0.071	0.00082	0.032	0.00037	198
164	0.587	0.00787	0.144	0.00192	0.063	0.00083	0.028	0.00037	196
166	0.515	0.00794	0.127	0.00193	0.055	0.00084	0.025	0.00038	194
168	0.442	0.00800	0.109	0.00195	0.048	0.00085	0.021	0.00038	192
170	0.369	0.00805	0.091	0.00196	0.040	0.00085	0.018	0.00038	190
172	0.296	0.00810	0.073	0.00197	0.032	0.00086	0.014	0.00039	188
174	0.222	0.00813	0.055	0.00198	0.024	0.00086	0.011	0.00039	186
176	0.148	0.00815	0.037	0.00199	0.016	0.00086	0.007	0.00039	184
178	0.074	0.00817	0.018	0.00199	0.008	0.00087	0.004	0.00039	182
180	0.000	0.00817	0.000	0.00199	0.000	0.00087	0.000	0.00039	180

Bewegung der mittleren Länge *L* und der mittleren Anomalie *M*

Zeit	Mimas		Enceladus		Tethys	Dione		Rhea	
	L	*M*	*L*	*M*	*L*	*L*	*M*	*L*	*M*
1^{d}	21.995	21.00	262.732	262.4	190.698	131.535	131.5	79.690	79.7
1^{h}	15.916	15.87	10.947	10.9	7.946	5.481	5.5	3.320	3.3
2	31.833	31.75	21.894	21.9	15.892	10.961	11.0	6.641	6.6
3	47.749	47.62	32.842	32.8	23.838	16.442	16.4	9.961	10.0
4	63.666	63.50	43.789	43.7	31.783	21.923	21.9	13.282	13.3
5	79.582	79.37	54.736	54.7	39.729	27.403	27.4	16.602	16.6
6	95.499	95.25	65.683	65.6	47.675	32.884	32.9	19.923	19.9
7	111.415	111.12	76.630	76.5	55.621	38.364	38.4	23.244	23.2
8	127.332	127.00	87.577	87.5	63.566	43.845	43.8	26.564	26.6
9	143.248	142.87	98.525	98.4	71.512	49.326	49.3	29.884	29.9
10	159.165	158.75	109.472	109.3	79.458	54.806	54.8	33.205	33.2
11	175.081	174.62	120.419	120.3	87.403	60.287	60.3	36.525	36.5
12	190.997	190.50	131.366	131.2	95.349	65.767	65.7	39.845	39.8
13	206.914	206.37	142.313	142.1	103.295	71.248	71.2	43.166	43.2
14	222.830	222.25	153.260	153.1	111.241	76.729	76.7	46.486	46.5
15	238.747	238.12	164.208	164.0	119.186	82.209	82.2	49.806	49.8
16	254.663	254.00	175.155	174.9	127.132	87.690	87.7	53.127	53.1
17	270.580	269.87	186.102	185.9	135.078	93.171	93.1	56.447	56.5
18	286.496	285.75	197.049	196.8	143.024	98.651	98.6	59.768	59.8
19	302.413	301.62	207.997	207.7	150.970	104.132	104.1	63.088	63.1
20	318.329	317.50	218.944	218.7	158.916	109.613	109.6	66.409	66.4
21	334.246	333.37	229.891	229.6	166.861	115.093	115.1	69.729	69.7
22	350.162	349.25	240.838	240.5	174.806	120.574	120.5	73.050	73.1
23	6.079	5.12	251.785	251.5	182.752	126.054	126.0	76.370	76.4
1^{m}	0.265	0.26	0.182	0.2	0.132	0.091	0.1	0.055	0.0
2	0.531	0.53	0.365	0.4	0.265	0.183	0.2	0.111	0.1
3	0.796	0.79	0.548	0.5	0.397	0.274	0.3	0.166	0.1
4	1.062	1.06	0.730	0.7	0.530	0.366	0.4	0.222	0.2
5	1.327	1.32	0.912	0.9	0.662	0.457	0.4	0.277	0.2
6	1.592	1.58	1.095	1.1	0.795	0.548	0.5	0.332	0.3
7	1.857	1.85	1.278	1.3	0.927	0.640	0.6	0.387	0.3
8	2.122	2.11	1.460	1.4	1.060	0.731	0.7	0.442	0.4
9	2.388	2.38	1.642	1.6	1.192	0.822	0.8	0.497	0.4
10	2.653	2.64	1.825	1.8	1.324	0.914	0.9	0.553	0.5
20	5.305	5.29	3.649	3.6	2.649	1.827	1.8	1.107	1.1
30	7.958	7.93	5.474	5.4	3.973	2.740	2.7	1.660	1.6
40	10.611	10.58	7.298	7.3	5.297	3.654	3.7	2.214	2.2
50	13.263	13.22	9.123	9.1	6.622	4.567	4.6	2.767	2.7
10^{s}	0.044	0.04	0.030	0.0	0.022	0.015	0.0	0.009	0.0
20	0.088	0.09	0.061	0.1	0.044	0.030	0.0	0.018	0.0
30	0.133	0.13	0.091	0.1	0.066	0.046	0.0	0.028	0.0
40	0.177	0.17	0.122	0.1	0.088	0.061	0.1	0.037	0.0
50	0.221	0.22	0.152	0.2	0.110	0.076	0.1	0.046	0.0

Mittlere Zeit Greenwich	ϑ Mimas	ϑ Encel.	ϑ Tethys	ϑ Dione	ϑ Rhea	γ Rhea	N Saturnsring	J Saturnsring	ω Saturnsring
1918 Dez. 16.5	235°.7	345°.4	350°.6	308°.9	94°.6	18'.69	127°.172	6°.845	42°.334
1919 Jan. 1.5	219.7	338.7	347.4	307.6	94.2	18.68	127.174	6.845	42.333
17.5	203.7	332.0	344.2	306.3	93.7	18.67	127.176	6.845	42.331
Febr. 2.5	187.7	325.3	341.0	304.9	93.2	18.66	127.177	6.844	42.330
18.5	171.7	318.6	337.9	303.5	92.8	18.64	127.179	6.844	42.329
März 6.5	155.7	311.9	334.7	302.2	92.3	18.63	127.181	6.844	42.328
22.5	139.7	305.2	331.6	300.8	91.8	18.62	127.183	6.844	42.326
April 7.5	123.7	298.5	328.4	299.5	91.4	18.60	127.185	6.844	42.325
23.5	107.7	291.8	325.2	298.1	90.9	18.59	127.186	6.843	42.324
Mai 9.5	91.7	285.1	322.0	296.7	90.4	18.58	127.188	6.843	42.323
25.5	75.7	278.4	318.8	295.4	89.9	18.57	127.190	6.843	42.321
Juni 10.5	59.7	271.7	315.6	294.0	89.4	18.56	127.192	6.843	42.320
26.5	43.6	265.0	312.4	292.6	89.0	18.55	127.194	6.843	42.319
Juli 12.5	27.6	258.3	309.3	291.3	88.5	18.53	127.195	6.842	42.318
28.5	11.6	251.6	306.2	289.9	88.0	18.52	127.197	6.842	42.316
Aug. 13.5	355.6	244.9	303.0	288.6	87.5	18.51	127.199	6.842	42.315
29.5	339.6	238.2	299.8	287.2	87.1	18.50	127.201	6.842	42.314
Sept. 14.5	323.6	231.5	296.6	285.9	86.6	18.48	127.202	6.842	42.313
30.5	307.6	224.8	293.4	284.5	86.1	18.47	127.204	6.841	42.311
Okt. 16.5	291.6	218.2	290.2	283.2	85.7	18.46	127.206	6.841	42.310
Nov. 1.5	275.6	211.5	287.0	281.8	85.2	18.45	127.208	6.841	42.309
17.5	259.6	204.8	283.8	280.4	84.7	18.43	127.210	6.841	42.308
Dez. 3.5	243.6	198.1	280.6	279.1	84.3	18.42	127.212	6.841	42.306
19.5	227.6	191.4	277.4	277.7	83.8	18.41	127.213	6.841	42.305
35.5	211.6	184.7	274.3	276.3	83.3	18.40	127.215	6.840	42.304

$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale

u − U		Mimas	Encel.	Tethys	Dione	Rhea	u − U	
0°	360°	−6+	−7+	−9+	−11+	−16+	180°	180°
10	350	−6+	−7+	−9+	−11+	−16+	170	190
20	340	−5+	−7+	−8+	−11+	−15+	160	200
30	330	−5+	−6+	−8+	−10+	−14+	150	210
40	320	−4+	−6+	−7+	− 9+	−12+	140	220
50	310	−3+	−5+	−6+	− 8+	−10+	130	230
60	300	−3+	−4+	−4+	− 6+	− 8+	120	240
70	290	−2+	−3+	−3+	− 4+	− 6+	110	250
80	280	−1+	−1+	−2+	− 2+	− 3+	100	260
90	270	0	0	0	0	0	90	270

Mittlere Zeit Greenwich	TITAN U	TITAN B	TITAN P	HYPERION U	HYPERION B	HYPERION P	JAPETUS U	JAPETUS B	JAPETUS P
1919	°	°	°	°	°	°	°	°	°
Jan. 1.5	26.111	−10.736	−5.997	21.339	−11.322	−5.985	98.628	+0.692	+2.198
3.5	26.035	10.780	6.002	21.263	11.367	5.989	98.549	0.658	2.177
5.5	25.954	10.826	6.008	21.181	11.414	5.993	98.463	0.623	2.156
7.5	25.867	10.875	6.014	21.094	11.464	5.998	98.371	0.586	2.134
9.5	25.775	10.927	6.020	21.001	11.516	6.003	98.274	0.548	2.110
11.5	25.677	−10.981	−6.026	20.903	−11.570	−6.008	98.172	+0.507	+2.084
13.5	25.573	11.038	6.033	20.799	11.626	6.014	98.064	0.465	2.057
15.5	25.464	11.097	6.040	20.690	11.684	6.020	97.951	0.421	2.029
17.5	25.351	11.158	6.047	20.576	11.744	6.026	97.834	0.376	1.999
19.5	25.233	11.221	6.054	20.459	11.807	6.032	97.712	0.330	1.968
21.5	25.111	−11.285	−6.062	20.338	−11.871	−6.038	97.586	+0.284	+1.936
23.5	24.986	11.351	6.069	20.214	11.937	6.044	97.455	0.236	1.903
25.5	24.857	11.418	6.077	20.085	12.004	6.051	97.320	0.188	1.870
27.5	24.725	11.487	6.085	19.952	12.072	6.057	97.182	0.138	1.835
29.5	24.591	11.557	6.093	19.816	12.143	6.064	97.041	0.087	1.800
31.5	24.454	−11.628	−6.101	19.677	−12.214	−6.071	96.898	+0.035	+1.764
Febr. 2.5	24.315	11.700	6.109	19.536	12.286	6.078	96.752	−0.018	1.728
4.5	24.173	11.772	6.117	19.393	12.358	6.085	96.604	0.071	1.691
6.5	24.029	11.845	6.125	19.247	12.431	6.092	96.455	0.123	1.653
8.5	23.883	11.919	6.133	19.100	12.504	6.099	96.304	0.176	1.615
10.5	23.735	−11.992	−6.142	18.952	−12.578	−6.106	96.152	−0.229	+1.576
12.5	23.587	12.065	6.150	18.804	12.652	6.113	96.000	0.283	1.538
14.5	23.439	12.138	6.159	18.656	12.726	6.120	95.847	0.336	1.499
16.5	23.291	12.211	6.167	18.508	12.799	6.127	95.694	0.389	1.461
18.5	23.144	12.284	6.176	18.360	12.871	6.134	95.542	0.442	1.422
20.5	22.996	−12.356	−6.184	18.213	−12.942	−6.141	95.390	−0.495	+1.383
22.5	22.849	12.428	6.193	18.066	13.013	6.149	95.239	0.547	1.345
24.5	22.703	12.499	6.201	17.920	13.083	6.156	95.090	0.598	1.307
26.5	22.559	12.568	6.209	17.775	13.151	6.163	94.942	0.648	1.270
28.5	22.417	12.636	6.217	17.632	13.219	6.169	94.797	0.697	1.233
März 2.5	22.278	−12.702	−6.225	17.491	−13.286	−6.175	94.653	−0.745	+1.197
4.5	22.141	12.767	6.233	17.353	13.351	6.181	94.512	0.792	1.161
6.5	22.007	12.830	6.241	17.217	13.415	6.187	94.375	0.838	1.126
8.5	21.876	12.892	6.248	17.085	13.477	6.193	94.241	0.883	1.092
10.5	21.748	12.953	6.255	16.957	13.537	6.199	94.111	0.926	1.059
12.5	21.624	−13.012	−6.261	16.832	−13.595	−6.205	93.984	−0.968	+1.027
14.5	21.504	13.068	6.268	16.712	13.650	6.210	93.861	1.008	0.995
16.5	21.388	13.122	6.274	16.596	13.703	6.215	93.743	1.046	0.965
18.5	21.277	13.173	6.281	16.485	13.753	6.219	93.630	1.082	0.936
20.5	21.171	13.221	6.287	16.378	13.801	6.223	93.522	1.117	0.908

Mittlere Zeit Greenwich	TITAN			HYPERION			JAPETUS		
	U	B	P	U	B	P	U	B	P
1919	°	°	°	°	°	°	°	°	°
März 20.5	21.171	−13.221	−6.287	16.378	−13.801	−6.223	93.522	−1.117	+0.908
22.5	21.069	13.267	6.293	16.277	13.847	6.227	93.419	1.150	0.881
24.5	20.972	13.309	6.298	16.180	13.890	6.232	93.321	1.182	0.856
26.5	20.881	13.349	6.303	16.089	13.931	6.236	93.228	1.212	0.832
28.5	20.796	13.387	6.307	16.003	13.969	6.240	93.141	1.240	0.810
30.5	20.716	−13.422	−6.310	15.922	−14.005	−6.244	93.059	−1.266	+0.789
April 1.5	20.642	13.454	6.313	15.847	14.037	6.247	92.984	1.289	0.770
3.5	20.574	13.483	6.316	15.778	14.066	6.249	92.915	1.310	0.752
5.5	20.512	13.509	6.319	15.715	14.092	6.252	92.852	1.329	0.736
7.5	20.456	13.532	6.322	15.659	14.115	6.254	92.796	1.346	0.722
9.5	20.407	−13.552	−6.325	15.609	−14.136	−6.256	92.746	−1.360	+0.709
11.5	20.364	13.570	6.327	15.566	14.154	6.258	92.702	1.372	0.698
13.5	20.327	13.584	6.329	15.530	14.169	6.260	92.665	1.382	0.688
15.5	20.297	13.596	6.331	15.500	14.180	6.262	92.634	1.390	0.680
17.5	20.273	13.605	6.332	15.476	14.189	6.263	92.611	1.396	0.674
19.5	20.256	−13.611	−6.333	15.458	−14.194	−6.263	92.594	−1.399	+0.669
21.5	20.245	13.614	6.333	15.447	14.196	6.264	92.584	1.400	0.667
23.5	20.241	13.613	6.333	15.442	14.195	6.264	92.580	1.398	0.666
25.5	20.244	13.609	6.333	15.445	14.191	6.264	92.584	1.394	0.666
27.5	20.253	13.601	6.332	15.454	14.184	6.264	92.594	1.387	0.669
29.5	20.269	−13.591	−6.331	15.470	−14.173	−6.264	92.611	−1.378	+0.674
Mai 1.5	20.292	13.577	6.330	15.493	14.159	6.263	92.634	1.368	0.680
3.5	20.321	13.560	6.328	15.522	14.141	6.261	92.665	1.356	0.688
5.5	20.357	13.541	6.326	15.558	14.120	6.259	92.702	1.341	0.698
7.5	20.399	13.519	6.324	15.600	14.097	6.257	92.746	1.324	0.709
9.5	20.447	−13.494	−6.321	15.648	−14.072	−6.255	92.796	−1.305	+0.722
11.5	20.502	13.466	6.318	15.703	14.044	6.253	92.853	1.283	0.737
13.5	20.563	13.435	6.315	15.764	14.014	6.250	92.915	1.259	0.753
15.5	20.630	13.401	6.312	15.831	13.981	6.247	92.984	1.233	0.771
17.5	20.704	13.364	6.308	15.905	13.946	6.244	93.060	1.204	0.791
19.5	20.783	−13.324	−6.303	15.984	−13.908	−6.241	93.143	−1.174	+0.812
21.5	20.868	13.282	6.298	16.070	13.867	6.238	93.231	1.143	0.834
23.5	20.959	13.237	6.293	16.161	13.822	6.235	93.326	1.110	0.858
25.5	21.056	13.190	6.288	16.259	13.774	6.231	93.427	1.076	0.884
27.5	21.159	13.140	6.283	16.361	13.724	6.227	93.534	1.039	0.911
29.5	21.268	−13.087	−6.277	16.470	−13.671	−6.222	93.646	−1.001	+0.939
31.5	21.383	13.032	6.271	16.584	13.615	6.217	93.763	0.960	0.969
Juni 2.5	21.503	12.974	6.265	16.704	13.557	6.212	93.886	0.918	1.000
4.5	21.628	12.914	6.259	16.829	13.498	6.206	94.014	0.873	1.033
6.5	21.758	12.852	6.252	16.959	13.436	6.200	94.148	0.827	1.067

Mittlere Zeit Greenwich	TITAN			HYPERION			JAPETUS		
	U	*B*	*P*	*U*	*B*	*P*	*U*	*B*	*P*
1919 Juni 6.5	21°758	−12°852	−6°252	16°959	−13°436	−6°200	94°148	−0°827	+1°067
8.5	21.893	12.787	6.245	17.094	13.372	6.194	94.287	0.780	1.103
10.5	22.032	12.720	6.238	17.234	13.305	6.188	94.432	0.730	1.140
Okt. 24.5	35.990	− 5.958	−5.329	31.198	− 6.532	−5.434	109.103	+3.856	+4.735
26.5	36.158	5.879	5.317	31.366	6.452	5.423	109.282	3.905	4.777
28.5	36.322	5.802	5.305	31.531	6.374	5.412	109.457	3.952	4.818
30.5	36.481	5.727	5.293	31.691	6.299	5.402	109.627	3.998	4.858
Nov. 1.5	36.636	5.654	5.282	31.847	6.226	5.392	109.793	4.042	4.897
3.5	36.787	− 5.583	−5.270	31.998	− 6.156	−5.382	109.954	+4.085	+4.935
5.5	36.933	5.515	5.259	32.144	6.088	5.373	110.110	4.126	4.971
7.5	37.075	5.449	5.248	32.285	6.023	5.364	110.261	4.166	5.006
9.5	37.213	5.386	5.237	32.421	5.960	5.355	110.407	4.204	5.039
11.5	37.346	5.326	5.227	32.552	5.900	5.347	110.548	4.240	5.071
13.5	37.474	− 5.268	−5.217	32.679	− 5.842	−5.339	110.683	+4.274	+5.103
15.5	37.597	5.214	5.208	32.801	5.787	5.331	110.813	4.306	5.134
17.5	37.713	5.162	5.199	32.918	5.734	5.324	110.937	4.336	5.163
19.5	37.823	5.114	5.190	33.029	5.684	5.317	111.055	4.364	5.190
21.5	37.927	5.068	5.182	33.134	5.638	5.310	111.167	4.390	5.216
23.5	38.025	− 5.025	−5.175	33.234	− 5.595	−5.303	111.273	+4.414	+5.241
25.5	38.118	4.986	5.168	33.328	5.554	5.297	111.373	4.436	5.264
27.5	38.206	4.950	5.162	33.416	5.517	5.291	111.466	4.457	5.285
29.5	38.288	4.918	5.156	33.497	5.484	5.286	111.553	4.475	5.305
Dez. 1.5	38.364	4.888	5.151	33.571	5.454	5.281	111.633	4.491	5.324
3.5	38.434	− 4.862	−5.146	33.639	− 5.428	−5.277	111.707	+4.505	+5.341
5.5	38.497	4.839	5.141	33.701	5.404	5.273	111.773	4.517	5.356
7.5	38.553	4.818	5.136	33.757	5.384	5.269	111.833	4.526	5.370
9.5	38.603	4.800	5.132	33.807	5.367	5.265	111.886	4.533	5.382
11.5	38.647	4.786	5.129	33.850	5.353	5.262	111.932	4.538	5.393
13.5	38.685	− 4.775	−5.127	33.888	− 5.343	−5.261	111.971	+4.541	+5.402
15.5	38.717	4.768	5.125	33.919	5.336	5.260	112.003	4.541	5.409
17.5	38.742	4.764	5.123	33.944	5.332	5.259	112.028	4.539	5.415
19.5	38.760	4.764	5.122	33.962	5.332	5.258	112.046	4.536	5.419
21.5	38.772	4.767	5.122	33.973	5.336	5.257	112.057	4.530	5.422
23.5	38.777	− 4.773	−5.122	33.977	− 5.343	−5.257	112.061	+4.523	+5.423
25.5	38.775	4.783	5.122	33.975	5.354	5.257	112.057	4.514	5.423
27.5	38.766	4.797	5.122	33.966	5.369	5.258	112.047	4.502	5.421
29.5	38.751	4.815	5.123	33.951	5.388	5.258	112.030	4.488	5.417
31.5	38.729	4.838	5.125	33.929	5.410	5.259	112.007	4.472	5.411

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS			
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
1919	s	s	″	″	s	s	″	″	s	s	″	″
Jan. 1.5	− 8.85	−3.36	+14.7	−16.3	+17.15	−1.66	+37.2	+ 9.6	+40.02	−0.27	−22.7	−0.3
2.5	−12.21	−1.51	− 1.6	−16.0	+15.49	−2.77	+46.8	+ 6.4	+39.75	−0.52	−23.0	−0.1
3.5	−13.72	+0.50	−17.6	−13.6	+12.72	−3.72	+53.2	+ 2.4	+39.23	−0.76	−23.1	+0.1
4.5	−13.22	+2.40	−31.2	− 9.2	+ 9.00	−4.42	+55.6	− 1.7	+38.47	−1.01	−23.0	+0.2
5.5	−10.82	+3.95	−40.4	− 3.5	+ 4.58	−4.80	+53.9	− 6.2	+37.46	−1.25	−22.8	+0.5
6.5	− 6.87	+4.93	−43.9	+ 2.6	− 0.22	−4.80	+47.7	−10.4	+36.21	−1.49	−22.3	+0.6
7.5	− 1.94	+5.22	−41.3	+ 8.6	− 5.02	−4.32	+37.3	−14.0	+34.72	−1.72	−21.7	+0.7
8.5	+ 3.28	+4.76	−32.7	+13.4	− 9.34	−3.39	+23.3	−16.4	+33.00	−1.94	−21.0	+0.8
9.5	+ 8.04	+3.55	−19.3	+16.4	−12.73	−2.01	+ 6.9	−17.3	+31.06	−2.15	−20.2	+1.1
10.5	+11.59	+1.74	− 2.9	+17.0	−14.74	−0.36	−10.4	−16.2	+28.91	−2.35	−19.1	+1.2
11.5	+13.33	−0.38	+14.1	+14.7	−15.10	+1.34	−26.6	−13.3	+26.56	−2.52	−17.9	+1.3
12.5	+12.95	−2.53	+28.8	+10.2	−13.76	+2.89	−39.9	− 8.8	+24.04	−2.69	−16.6	+1.4
13.5	+10.42	−4.28	+39.0	+ 3.7	−10.87	+4.07	−48.7	− 3.8	+21.35	−2.85	−15.2	+1.6
14.5	+ 6.14	−5.32	+42.7	− 3.5	− 6.80	+4.76	−52.5	+ 1.6	+18.50	−2.98	−13.6	+1.7
15.5	+ 0.82	−5.48	+39.2	− 9.9	− 2.04	+4.98	−50.9	+ 6.3	+15.52	−3.09	−11.9	+1.7
16.5	− 4.66	−4.79	+29.3	−14.7	+ 2.94	+4.74	−44.6	+10.3	+12.43	−3.19	−10.2	+1.8
17.5	− 9.45	−3.23	+14.6	−17.2	+ 7.68	+4.12	−34.3	+13.1	+ 9.24	−3.26	− 8.4	+1.8
18.5	−12.68	−1.35	− 2.6	−16.8	+11.80	+3.23	−21.2	+14.9	+ 5.98	−3.31	− 6.6	+1.9
19.5	−14.03	+0.70	−19.4	−14.1	+15.03	+2.14	− 6.3	+15.5	+ 2.67	−3.33	− 4.7	+1.9
20.5	−13.33	+2.64	−33.5	− 9.4	+17.17	+0.93	+ 9.2	+14.9	− 0.66	−3.34	− 2.8	+1.9
21.5	−10.69	+4.15	−42.9	− 3.4	+18.10	−0.34	+24.1	+13.3	− 4.00	−3.32	− 0.9	+1.9
22.5	− 6.54	+5.09	−46.3	+ 3.2	+17.76	−1.57	+37.4	+10.8	− 7.32	−3.27	+ 1.0	+1.8
23.5	− 1.45	+5.30	−43.1	+ 9.4	+16.19	−2.72	+48.2	+ 7.5	−10.59	−3.20	+ 2.8	+1.8
24.5	+ 3.85	+4.75	−33.7	+14.4	+13.47	−3.70	+55.7	+ 3.5	−13.79	−3.11	+ 4.6	+1.7
25.5	+ 8.60	+3.45	−19.3	+17.3	+ 9.77	−4.47	+59.2	− 0.9	−16.90	−3.00	+ 6.3	+1.7
26.5	+12.05	+1.58	− 2.0	+17.8	+ 5.30	−4.90	+58.3	− 5.8	−19.90	−2.86	+ 8.0	+1.5
27.5	+13.63	−0.63	+15.8	+15.4	+ 0.40	−4.94	+52.5	−10.3	−22.76	−2.70	+ 9.5	+1.4
28.5	+13.00	−2.77	+31.2	+10.2	− 4.54	−4.51	+42.2	−14.4	−25.46	−2.53	+10.9	+1.3
29.5	+10.23	−4.50	+41.4	+ 3.5	− 9.05	−3.59	+27.8	−17.2	−27.99	−2.33	+12.2	+1.1
30.5	+ 5.73	−5.47	+44.9	− 4.1	−12.64	−2.24	+10.6	−18.4	−30.32	−2.12	+13.3	+0.9
31.5	+ 0.26	−5.52	+40.8	−10.8	−14.88	−0.57	− 7.8	−17.6	−32.44	−1.89	+14.2	+0.9
Febr. 1.5	− 5.26	−4.68	+30.0	−15.8	−15.45	+1.19	−25.4	−14.8	−34.33	−1.66	+15.1	+0.8
2.5	− 9.94	−3.13	+14.2	−18.1	−14.26	+2.81	−40.2	−10.4	−35.99	−1.40	+15.9	+0.5
3.5	−13.07	−1.15	− 3.9	−17.6	−11.45	+4.02	−50.6	− 5.1	−37.39	−1.14	+16.4	+0.3
4.5	−14.22	+0.93	−21.5	−14.5	− 7.43	+4.80	−55.7	+ 0.7	−38.53	−0.87	+16.7	+0.1
5.5	−13.29	+2.86	−36.0	− 9.5	− 2.63	+5.07	−55.0	+ 5.8	−39.40	−0.60	+16.8	0.0
6.5	−10.43	+4.34	−45.5	− 3.2	+ 2.44	+4.87	−49.2	+10.3	−40.00	−0.32	+16.8	−0.1
7.5	− 6.09	+5.21	−48.7	+ 4.0	+ 7.31	+4.26	−38.9	+13.5	−40.32	−0.05	+16.7	−0.2
8.5	− 0.88	+5.33	−44.7	+10.2	+11.57	+3.39	−25.4	+15.6	−40.37	+0.23	+16.5	−0.5
9.5	+ 4.45		−34.5		+14.96		− 9.8		−40.14		+16.0	

Mittlere Zeit Greenwich	TITAN $\alpha_{tr} - \alpha_{pl}$		TITAN $\delta_{tr} - \delta_{pl}$		HYPERION $\alpha_{tr} - \alpha_{pl}$		HYPERION $\delta_{tr} - \delta_{pl}$		JAPETUS $\alpha_{tr} - \alpha_{pl}$		JAPETUS $\delta_{tr} - \delta_{pl}$	
1919	s	s	″	″	s	s	″	″	s	s	″	″
Febr. 9.5	+ 4.45	+4.68	−34.5	+15.4	+14.96	+2.28	− 9.8	+16.4	−40.14	+0.50	+16.0	−0.6
10.5	+ 9.13	+3.29	−19.1	+18.3	+17.24	+1.07	+ 6.6	+16.0	−39.64	+0.77	+15.4	−0.8
11.5	+12.42	+1.36	− 0.8	+18.5	+18.31	−0.21	+22.6	+14.6	−38.87	+1.03	+14.6	−0.9
12.5	+13.78	−0.88	+17.7	+15.8	+18.10	−1.44	+37.2	+12.0	−37.84	+1.28	+13.7	−1.1
13.5	+12.90	−3.01	+33.5	+10.3	+16.66	−2.64	+49.2	+ 8.7	−36.56	+1.52	+12.6	−1.1
14.5	+ 9.89	−4.68	+43.8	+ 3.0	+14.02	−3.65	+57.9	+ 4.5	−35.04	+1.75	+11.5	−1.2
15.5	+ 5.21	−5.55	+46.8	− 4.8	+10.37	−4.44	+62.4	− 0.2	−33.29	+1.96	+10.3	−1.3
16.5	− 0.34	−5.51	+42.0	−11.8	+ 5.93	−4.91	+62.2	− 5.1	−31.33	+2.17	+ 9.0	−1.4
17.5	− 5.85	−4.56	+30.2	−16.6	+ 1.02	−4.99	+57.1	−10.1	−29.16	+2.35	+ 7.6	−1.5
18.5	−10.41	−2.92	+13.6	−18.9	− 3.97	−4.62	+47.0	−14.5	−26.81	+2.52	+ 6.1	−1.5
19.5	−13.33	−0.92	− 5.3	−18.2	− 8.59	−3.74	+32.5	−17.8	−24.29	+2.67	+ 4.6	−1.6
20.5	−14.25	+1.18	−23.5	−14.9	−12.33	−2.43	+14.7	−19.4	−21.62	+2.82	+ 3.0	−1.6
21.5	−13.07	+3.05	−38.4	− 9.3	−14.76	−0.77	− 4.7	−18.9	−18.80	+2.92	+ 1.4	−1.6
22.5	−10.02	+4.48	−47.7	− 2.6	−15.53	+0.99	−23.6	−16.3	−15.88	+3.02	− 0.2	−1.4
23.5	− 5.54	+5.26	−50.3	+ 4.4	−14.54	+2.63	−39.9	−11.9	−12.86	+3.11	− 1.6	−1.3
24.5	− 0.28	+5.30	−45.9	+11.1	−11.91	+3.93	−51.8	− 6.3	− 9.75	+3.16	− 2.9	−1.4
25.5	+ 5.02	+4.55	−34.8	+16.2	− 7.98	+4.76	−58.1	− 0.3	− 6.59	+3.20	− 4.3	−1.3
26.5	+ 9.57	+3.10	−18.6	+19.1	− 3.22	+5.07	−58.4	+ 5.3	− 3.39	+3.23	− 5.6	−1.3
27.5	+12.67	+1.10	+ 0.5	+19.1	+ 1.85	+4.90	−53.1	+10.0	− 0.16	+3.22	− 6.9	−1.3
28.5	+13.77	−1.12	+19.6	+16.0	+ 6.75	+4.34	−43.1	+13.6	+ 3.06	+3.18	− 8.2	−1.2
März 1.5	+12.65	−3.22	+35.6	+10.1	+11.09	+3.49	−29.5	+16.0	+ 6.24	+3.15	− 9.4	−1.1
2.5	+ 9.43	−4.81	+45.7	+ 2.5	+14.58	+2.42	−13.5	+17.0	+ 9.39	+3.10	−10.5	−1.0
3.5	+ 4.62	−5.55	+48.2	− 5.5	+17.00	+1.20	+ 3.5	+16.9	+12.49	+3.01	−11.5	−0.9
4.5	− 0.93	−5.42	+42.7	−12.6	+18.20	−0.06	+20.4	+15.4	+15.50	+2.91	−12.4	−0.7
5.5	− 6.35	−4.39	+30.1	−17.5	+18.14	−1.29	+35.8	+13.1	+18.41	+2.81	−13.1	−0.6
6.5	−10.74	−2.71	+12.6	−19.5	+16.85	−2.48	+48.9	+ 9.7	+21.22	+2.67	−13.7	−0.5
7.5	−13.45	−0.67	− 6.9	−18.5	+14.37	−3.50	+58.6	+ 5.6	+23.89	+2.53	−14.2	−0.4
8.5	−14.12	+1.39	−25.4	−14.9	+10.87	−4.31	+64.2	+ 0.8	+26.42	+2.38	−14.6	−0.2
9.5	−12.73	+3.22	−40.3	− 9.0	+ 6.56	−4.82	+65.0	− 4.4	+28.80	+2.19	−14.8	−0.1
10.5	− 9.51	+4.56	−49.3	− 2.2	+ 1.74	−4.96	+60.6	− 9.5	+30.99	+2.00	−14.9	+0.1
11.5	− 4.95	+5.26	−51.5	+ 5.2	− 3.22	−4.64	+51.1	−14.2	+32.99	+1.81	−14.8	+0.1
12.5	+ 0.31	+5.19	−46.3	+11.8	− 7.86	−3.85	+36.9	−17.9	+34.80	+1.60	−14.7	+0.3
13.5	+ 5.50	+4.37	−34.5	+16.9	−11.71	−2.61	+19.0	−19.8	+36.40	+1.38	−14.4	+0.5
14.5	+ 9.87	+2.87	−17.6	+19.6	−14.32	−1.01	− 0.8	−19.7	+37.78	+1.15	−13.9	+0.6
15.5	+12.74	+0.87	+ 2.0	+19.3	−15.33	+0.73	−20.5	−17.5	+38.93	+0.91	−13.3	+0.6
16.5	+13.61	−1.34	+21.3	+15.9	−14.60	+2.39	−38.0	−13.1	+39.84	+0.67	−12.7	+0.7
17.5	+12.27	−3.37	+37.2	+ 9.7	−12.21	+3.71	−51.1	− 7.6	+40.51	+0.42	−12.0	+0.8
18.5	+ 8.90	−4.85	+46.9	+ 2.0	− 8.50	+4.60	−58.7	− 1.5	+40.93	+0.17	−11.2	+1.0
19.5	+ 4.05	−5.53	+48.9	− 6.3	− 3.90	+4.97	−60.2	+ 4.4	+41.10	−0.08	−10.2	+1.1
20.5	− 1.48		+42.6		+ 1.07		−55.8		+41.02		− 9.1	

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS			
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
1919	s	s	″	″	s	s	″	″	s	s	″	″
März 20.5	− 1.48	−5.26	+42.6	−13.3	+ 1.07	+4.86	−55.8	+ 9.4	+41.02	−0.34	− 9.1	+1.2
21.5	− 6.74	−4.18	+29.3	−17.9	+ 5.93	+4.37	−46.4	+13.2	+40.68	−0.59	− 7.9	+1.2
22.5	−10.92	−2.47	+11.4	−19.8	+10.30	+3.56	−33.2	+15.9	+40.09	−0.83	− 6.7	+1.2
23.5	−13.39	−0.42	− 8.4	−18.4	+13.86	+2.53	−17.3	+17.1	+39.26	−1.08	− 5.5	+1.3
24.5	−13.81	+1.53	−26.8	−14.6	+16.39	+1.37	− 0.2	+17.2	+38.18	−1.31	− 4.2	+1.3
25.5	−12.28	+3.32	−41.4	− 8.7	+17.76	+0.15	+17.0	+16.0	+36.87	−1.55	− 2.9	+1.4
26.5	− 8.96	+4.57	−50.1	− 1.6	+17.91	−1.07	+33.0	+13.8	+35.32	−1.77	− 1.5	+1.3
27.5	− 4.39	+5.19	−51.7	+ 5.8	+16.84	−2.23	+46.8	+10.5	+33.55	−1.97	− 0.2	+1.4
28.5	+ 0.80	+5.05	−45.9	+12.3	+14.61	−3.26	+57.3	+ 6.4	+31.58	−2.18	+ 1.2	+1.4
29.5	+ 5.85	+4.18	−33.6	+17.3	+11.35	−4.07	+63.7	+ 1.9	+29.40	−2.36	+ 2.6	+1.3
30.5	+10.03	+2.64	−16.3	+19.7	+ 7.28	−4.64	+65.6	− 3.2	+27.04	−2.52	+ 3.9	+1.3
31.5	+12.67	+0.65	+ 3.4	+19.1	+ 2.64	−4.83	+62.4	− 8.5	+24.52	−2.68	+ 5.2	+1.2
April 1.5	+13.32	−1.50	+22.5	+15.5	− 2.19	−4.63	+53.9	−13.3	+21.84	−2.82	+ 6.4	+1.2
2.5	+11.82	−3.46	+38.0	+ 9.2	− 6.82	−3.93	+40.6	−17.2	+19.02	−2.93	+ 7.6	+1.1
3.5	+ 8.36	−4.82	+47.2	+ 1.4	−10.75	−2.80	+23.4	−19.6	+16.09	−3.04	+ 8.7	+1.1
4.5	+ 3.54	−5.43	+48.6	− 6.9	−13.55	−1.31	+ 3.8	−19.9	+13.05	−3.12	+ 9.8	+1.0
5.5	− 1.89	−5.10	+41.7	−13.6	−14.86	+0.38	−16.1	−18.1	+ 9.93	−3.17	+10.8	+0.8
6.5	− 6.99	−3.96	+28.1	−18.1	−14.48	+2.02	−34.2	−14.1	+ 6.76	−3.20	+11.6	+0.8
7.5	−10.95	−2.26	+10.0	−19.6	−12.46	+3.39	−48.3	− 8.9	+ 3.56	−3.22	+12.4	+0.6
8.5	−13.21	−0.27	− 9.6	−18.1	− 9.07	+4.32	−57.2	− 2.8	+ 0.34	−3.20	+13.0	+0.6
9.5	−13.48	+1.68	−27.7	−14.1	− 4.75	+4.79	−60.0	+ 3.1	− 2.86	−3.18	+13.6	+0.4
10.5	−11.80	+3.37	−41.8	− 8.1	+ 0.04	+4.76	−56.9	+ 8.3	− 6.04	−3.13	+14.0	+0.4
11.5	− 8.43	+4.53	−49.9	− 0.9	+ 4.80	+4.36	−48.6	+12.3	− 9.17	−3.05	+14.4	+0.2
12.5	− 3.90	+5.08	−50.8	+ 6.1	+ 9.16	+3.63	−36.3	+15.1	−12.22	−2.95	+14.6	+0.2
13.5	+ 1.18	+4.88	−44.7	+12.6	+12.79	+2.67	−21.2	+16.6	−15.17	−2.83	+14.8	0.0
14.5	+ 6.06	+3.98	−32.1	+17.2	+15.46	+1.58	− 4.6	+17.0	−18.00	−2.71	+14.8	−0.1
15.5	+10.04	+2.43	−14.9	+19.5	+17.04	+0.42	+12.4	+16.1	−20.71	−2.55	+14.7	−0.3
16.5	+12.47	+0.49	+ 4.6	+18.7	+17.46	−0.77	+28.5	+14.1	−23.26	−2.38	+14.4	−0.3
17.5	+12.96	−1.62	+23.3	+14.8	+16.69	−1.90	+42.6	+11.2	−25.64	−2.19	+14.1	−0.4
18.5	+11.34	−3.48	+38.1	+ 8.6	+14.79	−2.92	+53.8	+ 7.4	−27.83	−1.99	+13.7	−0.5
19.5	+ 7.86	−4.77	+46.7	+ 0.7	+11.87	−3.76	+61.2	+ 3.0	−29.82	−1.77	+13.2	−0.6
20.5	+ 3.09	−5.28	+47.4	− 7.2	+ 8.11	−4.37	+64.2	− 1.9	−31.59	−1.55	+12.6	−0.7
21.5	− 2.19	−4.91	+40.2	−13.7	+ 3.74	−4.65	+62.3	− 6.9	−33.14	−1.33	+11.9	−0.8
22.5	− 7.10	−3.75	+26.5	−17.9	− 0.91	−4.55	+55.4	−12.0	−34.47	−1.09	+11.1	−0.9
23.5	−10.85	−2.08	+ 8.6	−19.0	− 5.46	−4.01	+43.4	−16.0	−35.56	−0.84	+10.2	−0.9
24.5	−12.93	−0.14	−10.4	−17.6	− 9.47	−3.03	+27.4	−18.6	−36.40	−0.59	+ 9.3	−1.0
25.5	−13.07	+1.75	−28.0	−13.4	−12.50	−1.64	+ 8.8	−19.5	−36.99	−0.34	+ 8.3	−1.0
26.5	−11.32	+3.36	−41.4	− 7.5	−14.14	−0.07	−10.7	−18.2	−37.33	−0.10	+ 7.3	−1.1
27.5	− 7.96	+4.45	−48.9	− 0.5	−14.21	+1.55	−28.9	−14.8	−37.43	+0.16	+ 6.2	−1.1
28.5	− 3.51		−49.4		−12.66		−43.7		−37.27		+ 5.1	

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS			
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
1919	s	s	"	"	s	s	"	"	s	s	"	"
April 28.5	− 3.51	+4.94	−49.4	+ 6.4	−12.66	+2.94	−43.7	− 9.9	−37.27	+0.40	+ 5.1	−1.1
29.5	+ 1.43	+4.71	−43.0	+12.6	− 9.72	+3.97	−53.6	− 4.3	−36.87	+0.63	+ 4.0	−1.0
30.5	+ 6.14	+3.79	−30.4	+17.0	− 5.75	+4.51	−57.9	+ 1.6	−36.24	+0.87	+ 3.0	−1.1
Mai 1.5	+ 9.93	+2.27	−13.4	+18.9	− 1.24	+4.63	−56.3	+ 6.7	−35.37	+1.09	+ 1.9	−1.1
2.5	+12.20	+0.36	+ 5.5	+18.0	+ 3.39	+4.31	−49.6	+10.9	−34.28	+1.31	+ 0.8	−1.1
3.5	+12.56	−1.67	+23.5	+14.1	+ 7.70	+3.71	−38.7	+13.8	−32.97	+1.51	− 0.3	−1.1
4.5	+10.89	−3.46	+37.6	+ 7.8	+11.41	+2.84	−24.9	+15.7	−31.46	+1.70	− 1.4	−1.0
5.5	+ 7.43	−4.68	+45.4	+ 0.2	+14.25	+1.84	− 9.2	+16.3	−29.76	+1.87	− 2.4	−1.0
6.5	+ 2.75	−5.12	+45.6	− 7.3	+16.09	+0.74	+ 7.1	+15.7	−27.89	+2.02	− 3.4	−1.0
7.5	− 2.37	−4.73	+38.3	−13.6	+16.83	−0.38	+22.8	+14.1	−25.87	+2.18	− 4.4	−0.9
8.5	− 7.10	−3.57	+24.7	−17.3	+16.45	−1.49	+36.9	+11.6	−23.69	+2.32	− 5.3	−0.9
9.5	−10.67	−1.93	+ 7.4	−18.5	+14.96	−2.51	+48.5	+ 8.1	−21.37	+2.44	− 6.2	−0.9
10.5	−12.60	−0.06	−11.1	−16.7	+12.45	−3.38	+56.6	+ 4.1	−18.93	+2.54	− 7.1	−0.8
11.5	−12.66	+1.78	−27.8	−12.6	+ 9.07	−4.04	+60.7	− 0.4	−16.39	+2.62	− 7.9	−0.7
12.5	−10.88	+3.30	−40.4	− 6.8	+ 5.03	−4.42	+60.3	− 5.3	−13.77	+2.70	− 8.6	−0.7
13.5	− 7.58	+4.35	−47.2	− 0.1	+ 0.61	−4.45	+55.0	− 9.9	−11.07	+2.75	− 9.3	−0.6
14.5	− 3.23	+4.79	−47.3	+ 6.5	− 3.84	−4.08	+45.1	−14.0	− 8.32	+2.79	− 9.9	−0.6
15.5	+ 1.56	+4.55	−40.8	+12.4	− 7.92	−3.24	+31.1	−17.2	− 5.53	+2.81	−10.5	−0.5
16.5	+ 6.11	+3.63	−28.4	+16.4	−11.16	−2.05	+13.9	−18.4	− 2.72	+2.81	−11.0	−0.4
17.5	+ 9.74	+2.14	−12.0	+18.1	−13.21	−0.58	− 4.5	−17.8	+ 0.09	+2.80	−11.4	−0.4
18.5	+11.88	+0.29	+ 6.1	+17.1	−13.79	+0.99	−22.3	−15.2	+ 2.89	+2.77	−11.8	−0.3
19.5	+12.17	−1.69	+23.2	+13.2	−12.80	+2.40	−37.5	−10.9	+ 5.66	+2.73	−12.1	−0.3
20.5	+10.48	−3.40	+36.4	+ 7.2	−10.40	+3.51	−48.4	− 5.6	+ 8.39	+2.67	−12.4	−0.2
21.5	+ 7.08	−4.56	+43.6	− 0.2	− 6.89	+4.18	−54.0	− 0.3	+11.06	+2.59	−12.6	−0.2
22.5	+ 2.52	−4.97	+43.4	− 7.3	− 2.71	+4.45	−54.3	+ 4.8	+13.65	+2.51	−12.8	−0.1
23.5	− 2.45	−4.55	+36.1	−13.2	+ 1.74	+4.27	−49.5	+ 9.1	+16.16	+2.41	−12.9	−0.1
24.5	− 7.00	−3.43	+22.9	−16.7	+ 6.01	+3.77	−40.4	+12.3	+18.57	+2.30	−13.0	0.0
25.5	−10.43	−1.83	+ 6.2	−17.5	+ 9.78	+3.04	−28.1	+14.2	+20.87	+2.17	−13.0	0.0
26.5	−12.26	−0.01	−11.3	−15.8	+12.82	+2.13	−13.9	+15.3	+23.04	+2.03	−13.0	+0.1
27.5	−12.27	+1.75	−27.1	−11.8	+14.95	+1.11	+ 1.4	+14.9	+25.07	+1.88	−12.9	+0.1
28.5	−10.52	+3.23	−38.9	− 6.1	+16.06	+0.04	+16.3	+13.8	+26.95	+1.73	−12.8	+0.1
29.5	− 7.29	+4.23	−45.0	+ 0.1	+16.10	−1.03	+30.1	+11.8	+28.68	+1.56	−12.7	+0.2
30.5	− 3.06	+4.66	−44.9	+ 6.5	+15.07	−2.03	+41.9	+ 8.8	+30.24	+1.39	−12.5	+0.3
31.5	+ 1.60	+4.40	−38.4	+12.0	+13.04	−2.94	+50.7	+ 5.2	+31.63	+1.21	−12.2	+0.2
Juni 1.5	+ 6.00	+3.50	−26.4	+15.7	+10.10	−3.66	+55.9	+ 1.1	+32.84	+1.01	−12.0	+0.3
2.5	+ 9.50	+2.06	−10.7	+17.2	+ 6.44	−4.15	+57.0	− 3.4	+33.85	+0.81	−11.7	+0.3
3.5	+11.56	+0.23	+ 6.5	+16.1	+ 2.29	−4.32	+53.6	− 7.8	+34.66	+0.62	−11.4	+0.3
4.5	+11.79	−1.64	+22.6	+12.3	− 2.03	−4.12	+45.8	−11.9	+35.28	+0.42	−11.1	+0.4
5.5	+10.15	−3.32	+34.9	+ 6.5	− 6.15	−3.49	+33.9	−15.2	+35.70	+0.21	−10.7	+0.4
6.5	+ 6.83		+41.4		− 9.64		+18.7		+35.91		−10.3	

Mittlere Zeit Greenwich	TITAN				HYPERION				JAPETUS			
	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
1919	s	s	"	"	s	s	"	"	s	s	"	"
Juni 6.5	+ 6.83	−4.44	+41.4	− 0.5	− 9.64	−2.47	+18.7	−17.0	+35.91	0.00	−10.3	+0.4
7.5	+ 2.39	−4.82	+40.9	− 7.1	−12.11	−1.13	+ 1.7	−17.1	+35.91	−0.20	− 9.9	+0.4
8.5	− 2.43	−4.41	+33.8	−12.7	−13.24	+0.37	−15.4	−15.2	+35.71	−0.41	− 9.5	+0.4
9.5	− 6.84	−3.33	+21.1	−15.9	−12.87	+1.81	−30.6	−11.6	+35.30	−0.62	− 9.1	+0.5
10.5	−10.17		+ 5.2		−11.06		−42.2		+34.68		− 8.6	
Okt. 24.5	+ 8.38	+2.28	− 0.7	+ 9.2	+12.74	+1.69	+ 3.4	+ 8.0	− 5.81	+2.50	+41.0	−2.5
25.5	+10.66	+0.59	+ 8.5	+ 7.8	+14.43	+0.76	+11.4	+ 7.2	− 3.31	+2.53	+38.5	−2.7
26.5	+11.25	−1.24	+16.3	+ 5.0	+15.19	−0.25	+18.6	+ 5.9	− 0.78	+2.54	+35.8	−2.8
27.5	+10.01	−2.90	+21.3	+ 1.5	+14.94	−1.26	+24.5	+ 4.2	+ 1.76	+2.54	+33.0	−3.1
28.5	+ 7.11	−4.09	+22.8	− 2.4	+13.68	−2.24	+28.7	+ 2.0	+ 4.30	+2.52	+29.9	−3.3
29.5	+ 3.02	−4.59	+20.4	− 5.7	+11.44	−3.13	+30.7	− 0.3	+ 6.82	+2.49	+26.6	−3.5
30.5	− 1.57	−4.37	+14.7	− 8.1	+ 8.31	−3.81	+30.4	− 2.8	+ 9.31	+2.45	+23.1	−3.7
31.5	− 5.94	−3.45	+ 6.6	− 9.1	+ 4.50	−4.24	+27.6	− 5.4	+11.76	+2.39	+19.4	−3.9
Nov. 1.5	− 9.39	−2.06	− 2.5	− 8.7	+ 0.26	−4.26	+22.2	− 7.5	+14.15	+2.31	+15.5	−4.0
2.5	−11.45	−0.39	−11.2	− 6.9	− 4.00	−3.85	+14.7	− 9.0	+16.46	+2.22	+11.5	−4.1
3.5	−11.84	+1.29	−18.1	− 4.4	− 7.85	−2.99	+ 5.7	− 9.6	+18.68	+2.13	+ 7.4	−4.1
4.5	−10.55	+2.78	−22.5	− 1.2	−10.84	−1.76	− 3.9	− 9.1	+20.81	+2.03	+ 3.3	−4.2
5.5	− 7.77	+3.87	−23.7	+ 2.3	−12.60	−0.34	−13.0	− 7.6	+22.84	+1.92	− 0.9	−4.3
6.5	− 3.90	+4.44	−21.4	+ 5.3	−12.94	+1.08	−20.6	− 5.3	+24.76	+1.78	− 5.2	−4.3
7.5	+ 0.54	+4.37	−16.1	+ 7.5	−11.86	+2.31	−25.9	− 2.4	+26.54	+1.64	− 9.5	−4.3
8.5	+ 4.91	+3.65	− 8.6	+ 8.9	− 9.55	+3.23	−28.3	+ 0.1	+28.18	+1.47	−13.8	−4.3
9.5	+ 8.56	+2.34	+ 0.3	+ 8.8	− 6.32	+3.80	−28.2	+ 2.6	+29.65	+1.31	−18.1	−4.2
10.5	+10.90	+0.60	+ 9.1	+ 7.3	− 2.52	+4.02	−25.6	+ 4.9	+30.96	+1.13	−22.3	−4.1
11.5	+11.50	−1.26	+16.4	+ 4.5	+ 1.50	+3.92	−20.7	+ 6.3	+32.09	+0.96	−26.4	−4.1
12.5	+10.24	−2.97	+20.9	+ 1.1	+ 5.42	+3.55	−14.4	+ 7.4	+33.05	+0.77	−30.5	−3.9
13.5	+ 7.27	−4.19	+22.0	− 2.7	+ 8.97	+2.96	− 7.0	+ 7.9	+33.82	+0.58	−34.4	−3.8
14.5	+ 3.08	−4.72	+19.3	− 5.8	+11.93	+2.18	+ 0.9	+ 7.7	+34.40	+0.39	−38.2	−3.6
15.5	− 1.64	−4.47	+13.5	− 8.0	+14.11	+1.27	+ 8.6	+ 7.2	+34.79	+0.18	−41.8	−3.3
16.5	− 6.11	−3.53	+ 5.5	− 8.8	+15.38	+0.26	+15.8	+ 6.2	+34.97	−0.02	−45.1	−3.1
17.5	− 9.64	−2.10	− 3.3	− 8.3	+15.64	−0.79	+22.0	+ 4.6	+34.95	−0.23	−48.2	−2.8
18.5	−11.74	−0.40	−11.6	− 6.6	+14.85	−1.85	+26.6	+ 2.7	+34.72	−0.44	−51.0	−2.6
19.5	−12.14	+1.36	−18.2	− 3.9	+13.00	−2.84	+29.3	+ 0.5	+34.28	−0.66	−53.6	−2.3
20.5	−10.78	+2.83	−22.1	− 0.9	+10.16	−3.67	+29.8	− 2.0	+33.62	−0.87	−55.9	−2.0
21.5	− 7.95	+3.99	−23.0	+ 2.4	+ 6.49	−4.24	+27.8	− 4.4	+32.75	−1.08	−57.9	−1.6
22.5	− 3.96	+4.56	−20.6	+ 5.4	+ 2.25	−4.47	+23.4	− 6.5	+31.67	−1.27	−59.5	−1.2
23.5	+ 0.60	+4.48	−15.2	+ 7.6	− 2.22	−4.25	+16.9	− 8.3	+30.40	−1.47	−60.7	−0.9
24.5	+ 5.08		− 7.6		− 6.47		+ 8.6		+28.93		−61.6	

Mittlere Zeit Greenwich	TITAN $\alpha_{tr} - \alpha_{pl}$	Diff.	TITAN $\delta_{tr} - \delta_{pl}$	Diff.	HYPERION $\alpha_{tr} - \alpha_{pl}$	Diff.	HYPERION $\delta_{tr} - \delta_{pl}$	Diff.	JAPETUS $\alpha_{tr} - \alpha_{pl}$	Diff.	JAPETUS $\delta_{tr} - \delta_{pl}$	Diff.
1919												
Nov. 24.5	+ 5.08	+3.74	− 7.6	+8.7	− 6.47	−3.55	+ 8.6	−9.4	+28.93	−1.65	−61.6	−0.5
25.5	+ 8.82	+2.38	+ 1.1	+8.6	−10.02	−2.42	− 0.8	−9.3	+27.28	−1.83	−62.1	0.0
26.5	+11.20	+0.60	+ 9.7	+7.0	−12.44	−1.00	−10.1	−8.0	+25.45	−2.00	−62.1	+0.3
27.5	+11.80	−1.33	+16.7	+4.2	−13.44	+0.48	−18.1	−5.9	+23.45	−2.17	−61.8	+0.6
28.5	+10.47	−3.08	+20.9	+0.7	−12.96	+1.87	−24.0	−3.4	+21.28	−2.32	−61.2	+1.0
29.5	+ 7.39	−4.32	+21.6	−2.9	−11.09	+2.96	−27.4	−0.7	+18.96	−2.44	−60.2	+1.6
30.5	+ 3.07	−4.85	+18.7	−5.9	− 8.13	+3.72	−28.1	+1.9	+16.52	−2.56	−58.6	+2.1
Dez. 1.5	− 1.78	−4.58	+12.8	−8.1	− 4.41	+4.10	−26.2	+4.0	+13.96	−2.66	−56.5	+2.4
2.5	− 6.36	−3.61	+ 4.7	−8.7	− 0.31	+4.14	−22.2	+5.8	+11.30	−2.75	−54.1	+2.7
3.5	− 9.97	−2.13	− 4.0	−8.2	+ 3.83	+3.88	−16.4	+7.1	+ 8.55	−2.82	−51.4	+3.0
4.5	−12.10	−0.37	−12.2	−6.4	+ 7.71	+3.37	− 9.3	+7.6	+ 5.73	−2.88	−48.4	+3.4
5.5	−12.47	+1.41	−18.6	−3.8	+11.08	+2.63	− 1.7	+7.8	+ 2.85	−2.90	−45.0	+3.8
6.5	−11.06	+2.98	−22.4	−0.5	+13.71	+1.76	+ 6.1	+7.4	− 0.05	−2.90	−41.2	+4.1
7.5	− 8.08	+4.12	−22.9	+2.6	+15.47	+0.73	+13.5	+6.5	− 2.95	−2.89	−37.1	+4.4
8.5	− 3.96	+4.70	−20.3	+5.6	+16.20	−0.34	+20.0	+5.2	− 5.84	−2.87	−32.7	+4.6
9.5	+ 0.74	+4.61	−14.7	+7.7	+15.86	−1.47	+25.2	+3.4	− 8.71	−2.83	−28.1	+4.9
10.5	+ 5.35	+3.81	− 7.0	+8.8	+14.39	−2.54	+28.6	+1.2	−11.54	−2.76	−23.2	+5.0
11.5	+ 9.16	+2.41	+ 1.8	+8.5	+11.85	−3.50	+29.8	−1.0	−14.30	−2.67	−18.2	+5.2
12.5	+11.57	+0.56	+10.3	+6.9	+ 8.35	−4.22	+28.8	−3.6	−16.97	−2.56	−13.0	+5.3
13.5	+12.13	−1.44	+17.2	+4.1	+ 4.13	−4.62	+25.2	−5.9	−19.53	−2.44	− 7.7	+5.4
14.5	+10.69	−3.23	+21.3	+0.5	− 0.49	−4.59	+19.3	−7.9	−21.97	−2.30	− 2.3	+5.4
15.5	+ 7.46	−4.48	+21.8	−3.1	− 5.08	−4.03	+11.4	−9.2	−24.27	−2.15	+ 3.1	+5.5
16.5	+ 2.98	−5.00	+18.7	−6.2	− 9.11	−3.03	+ 2.2	−9.5	−26.42	−1.98	+ 8.6	+5.4
17.5	− 2.02	−4.69	+12.5	−8.2	−12.14	−1.64	− 7.3	−8.7	−28.40	−1.80	+14.0	+5.3
18.5	− 6.71	−3.67	+ 4.3	−8.9	−13.78	−0.07	−16.0	−6.8	−30.20	−1.59	+19.3	+5.2
19.5	−10.38	−2.12	− 4.6	−8.3	−13.85	+1.41	−22.8	−4.4	−31.79	−1.38	+24.5	+5.0
20.5	−12.50	−0.31	−12.9	−6.4	−12.44	+2.70	−27.2	−1.7	−33.17	−1.16	+29.5	+4.9
21.5	−12.81	+1.53	−19.3	−3.6	− 9.74	+3.61	−28.9	+1.0	−34.33	−0.94	+34.4	+4.7
22.5	−11.28	+3.13	−22.9	−0.5	− 6.13	+4.15	−27.9	+3.4	−35.27	−0.72	+39.1	+4.4
23.5	− 8.15	+4.28	−23.4	+3.0	− 1.98	+4.32	−24.5	+5.4	−35.99	−0.49	+43.5	+4.1
24.5	− 3.87	+4.86	−20.4	+5.7	+ 2.34	+4.17	−19.1	+6.7	−36.48	−0.24	+47.6	+3.8
25.5	+ 0.99	+4.72	−14.7	+7.9	+ 6.51	+3.73	−12.4	+7.7	−36.72	−0.01	+51.4	+3.5
26.5	+ 5.71	+3.88	− 6.8	+9.1	+10.24	+3.05	− 4.7	+8.0	−36.73	+0.23	+54.9	+3.2
27.5	+ 9.59	+2.39	+ 2.3	+8.7	+13.29	+2.19	+ 3.3	+7.9	−36.50	+0.46	+58.1	+2.8
28.5	+11.98	+0.47	+11.0	+7.0	+15.48	+1.17	+11.2	+7.2	−36.04	+0.69	+60.9	+2.4
29.5	+12.45	−1.59	+18.0	+4.0	+16.65	+0.04	+18.4	+6.0	−35.35	+0.92	+63.3	+1.9
30.5	+10.86	−3.41	+22.0	+0.5	+16.69	−1.11	+24.4	+4.3	−34.43	+1.14	+65.2	+1.5
31.5	+ 7.45	−4.67	+22.5	−3.3	+15.58	−2.26	+28.7	+2.2	−33.29	+1.35	+66.7	+1.0
32.5	+ 2.78		+19.2		+13.32		+30.9		−31.94		+67.7	

Östliche Elongationen

MIMAS

	h		h		h		h		h
Jan. 1	7.2	Febr. 13	15.4	März 28	23.7	Mai 11	8.2	Nov. 5	12.1
2	5.8	14	14.0	29	22.3	12	6.8	6	10.7
3	4.4	15	12.7	30	20.9	13	5.5	7	9.4
4	3.0	16	11.3	31	19.6	14	4.1	8	8.0
5	1.6	17	9.9	April 1	18.2	15	2.7	9	6.6
6	0.2	18	8.5	2	16.8	16	1.3	10	5.2
6	22.9	19	7.1	3	15.4	17	0.0	11	3.9
7	21.5	20	5.7	4	14.0	17	22.6	12	2.5
8	20.1	21	4.3	5	12.7	18	21.2	13	1.1
9	18.7	22	2.9	6	11.3	19	19.8	13	23.7
10	17.3	23	1.5	7	9.9	20	18.5	14	22.3
11	15.9	24	0.2	8	8.5	21	17.1	15	21.0
12	14.5	24	22.8	9	7.1	22	15.7	16	19.6
13	13.1	25	21.4	10	5.7	23	14.3	17	18.2
14	11.8	26	20.0	11	4.3	24	13.0	18	16.8
15	10.4	27	18.7	12	2.9	25	11.6	19	15.4
16	9.0	28	17.3	13	1.6	26	10.2	20	14.0
17	7.6	März 1	15.9	14	0.2	27	8.8	21	12.6
18	6.2	2	14.5	14	22.8	28	7.4	22	11.2
19	4.8	3	13.1	15	21.4	29	6.1	23	9.9
20	3.4	4	11.8	16	20.1	30	4.7	24	8.5
21	2.0	5	10.4	17	18.7	31	3.3	25	7.1
22	0.6	6	9.0	18	17.3	Juni 1	1.9	26	5.7
22	23.3	7	7.6	19	15.9	2	0.6	27	4.4
23	21.9	8	6.2	20	14.5	2	23.2	28	3.0
24	20.5	9	4.8	21	13.2	3	21.8	29	1.6
25	19.1	10	3.4	22	11.8	4	20.4	30	0.2
26	17.8	11	2.0	23	10.4	5	19.1	30	22.8
27	16.4	12	0.7	24	9.0	6	17.7	Dez. 1	21.5
28	15.0	12	23.3	25	7.6	7	16.3	2	20.1
29	13.6	13	21.9	26	6.2	8	14.9	3	18.7
30	12.2	14	20.5	27	4.9	9	13.6	4	17.3
31	10.9	15	19.2	28	3.5	10	12.2	5	15.9
Febr. 1	9.5	16	17.8	29	2.1			6	14.5
2	8.1	17	16.4	30	0.7	Okt. 25	4.7	7	13.1
3	6.7	18	15.0	30	23.4	26	3.3	8	11.7
4	5.3	19	13.6	Mai 1	22.0	27	1.9	9	10.4
5	3.9	20	12.2	2	20.6	28	0.5	10	9.0
6	2.5	21	10.8	3	19.2	28	23.2	11	7.6
7	1.1	22	9.4	4	17.9	29	21.8	12	6.2
7	23.8	23	8.0	5	16.5	30	20.4	13	4.9
8	22.4	24	6.6	6	15.1	31	19.0	14	3.6
9	21.0	25	5.2	7	13.7	Nov. 1	17.7	15	2.2
10	19.6	26	3.8	8	12.4	2	16.3	16	0.8
11	18.2	27	2.4	9	11.0	3	14.9	16	23.4
12	16.8	28	1.1	10	9.6	4	13.5	17	22.1

Östliche Elongationen

MIMAS

		h
Dez.	18	20.7
	19	19.3
	20	17.9
	21	16.5
	22	15.1
	23	13.7
	24	12.3
	25	10.9
	26	9.5
	27	8.1
	28	6.8
	29	5.4
	30	4.0
	31	2.6

ENCELADUS

		h
Jan.	1	9.7
	2	18.6
	4	3.5
	5	12.3
	6	21.2
	8	6.1
	9	15.0
	10	23.8
	12	8.7
	13	17.6
	15	2.5
	16	11.3
	17	20.2
	19	5.1
	20	13.9
	21	22.8
	23	7.7
	24	16.5
	26	1.4
	27	10.2
	28	19.1
	30	4.0
	31	12.9
Febr.	1	21.8
	3	6.7
	4	15.6
	6	0.5
	7	9.4
	8	18.3

ENCELADUS

		h
Febr.	10	3.2
	11	12.0
	12	20.9
	14	5.8
	15	14.7
	16	23.5
	18	8.4
	19	17.2
	21	2.1
	22	11.0
	23	19.8
	25	4.7
	26	13.6
	27	22.5
März	1	7.4
	2	16.3
	4	1.1
	5	10.0
	6	18.9
	8	3.8
	9	12.6
	10	21.5
	12	6.4
	13	15.3
	15	0.1
	16	9.0
	17	17.9
	19	2.8
	20	11.6
	21	20.5
	23	5.4
	24	14.3
	25	23.1
	27	8.0
	28	16.9
	30	1.7
	31	10.6
April	1	19.5
	3	4.4
	4	13.3
	5	22.2
	7	7.1
	8	16.0
	10	0.9
	11	9.8

ENCELADUS

		h
April	12	18.7
	14	3.6
	15	12.5
	16	21.3
	18	6.2
	19	15.1
	21	0.0
	22	8.9
	23	17.8
	25	2.7
	26	11.6
	27	20.5
	29	5.3
	30	14.2
Mai	1	23.1
	3	8.0
	4	16.9
	6	1.8
	7	10.6
	8	19.5
	10	4.4
	11	13.3
	12	22.2
	14	7.1
	15	16.0
	17	0.9
	18	9.8
	19	18.7
	21	3.6
	22	12.5
	23	21.4
	25	6.3
	26	15.2
	28	0.1
	29	9.0
	30	17.9
Juni	1	2.8
	2	11.7
	3	20.6
	5	5.5
	6	14.4
	7	23.3
	9	8.2
	10	17.0

ENCELADUS

		h
Okt.	24	10.0
	25	18.9
	27	3.8
	28	12.7
	29	21.6
	31	6.5
Nov.	1	15.3
	3	0.2
	4	9.1
	5	18.0
	7	2.9
	8	11.8
	9	20.7
	11	5.5
	12	14.4
	13	23.3
	15	8.2
	16	17.1
	18	2.0
	19	10.9
	20	19.8
	22	4.7
	23	13.6
	24	22.5
	26	7.4
	27	16.2
	29	1.1
	30	10.0
Dez.	1	18.9
	3	3.8
	4	12.7
	5	21.6
	7	6.5
	8	15.3
	10	0.2
	11	9.1
	12	18.0
	14	2.9
	15	11.8
	16	20.6
	18	5.5
	19	14.4
	20	23.3
	22	8.2
	23	17.1

ENCELADUS

		h
Dez.	25	1.9
	26	10.8
	27	19.7
	29	4.6
	30	13.5
	31	22.4

TETHYS

		h
Jan.	1	21.8
	3	19.1
	5	16.4
	7	13.7
	9	11.0
	11	8.2
	13	5.5
	15	2.8
	17	0.1
	18	21.4
	20	18.7
	22	16.0
	24	13.3
	26	10.6
	28	7.8
	30	5.1
Febr.	1	2.4
	2	23.7
	4	21.0
	6	18.3
	8	15.6
	10	12.9
	12	10.1
	14	7.4
	16	4.7
	18	2.0
	19	23.3
	21	20.6
	23	17.9
	25	15.2
	27	12.5
März	1	9.7
	3	7.0
	5	4.3
	7	1.6
	8	22.9
	10	20.2

Östliche Elongationen

TETHYS

Datum		h
März	12	17.5
	14	14.8
	16	12.1
	18	9.4
	20	6.7
	22	4.0
	24	1.3
	25	22.6
	27	19.9
	29	17.2
	31	14.5
April	2	11.9
	4	9.2
	6	6.5
	8	3.8
	10	1.1
	11	22.4
	13	19.7
	15	17.0
	17	14.3
	19	11.6
	21	8.9
	23	6.2
	25	3.5
	27	0.8
	28	22.1
	30	19.4
Mai	2	16.7
	4	14.0
	6	11.4
	8	8.7
	10	6.0
	12	3.3
	14	0.6
	15	22.0
	17	19.3
	19	16.6
	21	13.9
	23	11.2
	25	8.6
	27	5.9
	29	3.2
	31	0.5
Juni	1	21.9
	3	19.2
	5	16.5

TETHYS

Datum		h
Juni	7	13.8
	9	11.1
Okt.	25	8.4
	27	5.7
	29	3.0
	31	0.3
Nov.	1	21.7
	3	19.0
	5	16.3
	7	13.7
	9	11.0
	11	8.3
	13	5.6
	15	3.0
	17	0.3
	18	21.6
	20	18.9
	22	16.2
	24	13.5
	26	10.8
	28	8.2
	30	5.5
Dez.	2	2.8
	4	0.1
	5	21.4
	7	18.7
	9	16.0
	11	13.3
	13	10.7
	15	8.0
	17	5.3
	19	2.6
	20	23.9
	22	21.2
	24	18.5
	26	15.8
	28	13.1
	30	10.4
	32	7.7

DIONE

Datum		h
Jan.	2	5.7
	4	23.4
	7	17.1
	10	10.8
	13	4.4
	15	22.1
	18	15.7
	21	9.3
	24	3.0
	26	20.6
	29	14.3
Febr.	1	7.9
	4	1.6
	6	19.2
	9	12.9
	12	6.5
	15	0.2
	17	17.8
	20	11.5
	23	5.1
	25	22.8
	28	16.4
März	3	10.1
	6	3.7
	8	21.4
	11	15.1
	14	8.7
	17	2.4
	19	20.1
	22	13.8
	25	7.4
	28	1.1
	30	18.7
April	2	12.4
	5	6.0
	7	23.7
	10	17.4
	13	11.1
	16	4.7
	18	22.4
	21	16.1
	24	9.8
	27	3.5
	29	21.2
Mai	2	14.9
	5	8.6
	8	2.3
	10	20.0
	13	13.7
	16	7.4

DIONE

Datum		h
Mai	19	1.1
	21	18.9
	24	12.6
	27	6.3
	30	0.0
Juni	1	17.7
	4	11.4
	7	5.2
	9	22.9
Okt.	24	21.8
	27	15.5
	30	9.2
Nov.	2	2.9
	4	20.6
	7	14.3
	10	8.1
	13	1.8
	15	19.5
	18	13.2
	21	6.9
	24	0.6
	26	18.3
	29	12.0
Dez.	2	5.7
	4	23.4
	7	17.1
	10	10.8
	13	4.5
	15	22.2
	18	15.9
	21	9.6
	24	3.3
	26	21.0
	29	14.7
	32	8.4

RHEA

Datum		h
Jan.	1	16.3
	6	4.6
	10	16.9
	15	5.3
	19	17.6
	24	6.0
	28	18.3
Febr.	2	6.6
	6	19.0
	11	7.3
	15	19.6
	20	7.9
	24	20.2
März	1	8.5
	5	20.9
	10	9.2
	14	21.6
	19	9.9
	23	22.3
	28	10.7
April	1	23.0
	6	11.4
	10	23.8
	15	12.2
	20	0.6
	24	13.0
	29	1.5
Mai	3	13.9
	8	2.3
	12	14.8
	17	3.2
	21	15.7
	26	4.3
	30	16.8
Juni	4	5.3
	8	17.9
Okt.	26	23.2
	31	11.7
Nov.	5	0.2
	9	12.7
	14	1.2
	18	13.7
	23	2.2
	27	14.6
Dez.	2	3.1
	6	15.6
	11	4.0
	15	16.5
	20	4.9
	24	17.3
	29	5.7
	33	18.2

Elongationen und Konjunktionen

TITAN

		h	
Jan.	3	18.9	Westl. El.
	7	23.3	Ob. Konj.
	11	23.2	Östl. El.
	15	17.9	Unt. Konj.
	19	16.7	Westl. El.
	23	21.0	Ob. Konj.
	27	20.9	Östl. El.
	31	15.4	Unt. Konj.
Febr.	4	14.2	Westl. El.
	8	18.4	Ob. Konj.
	12	18.4	Östl. El.
	16	13.0	Unt. Konj.
	20	11.5	Westl. El.
	24	15.8	Ob. Konj.
	28	15.9	Östl. El.
März	4	10.5	Unt. Konj.
	8	9.1	Westl. El.
	12	13.3	Ob. Konj.
	16	13.6	Östl. El.
	20	8.3	Unt. Konj.
	24	6.8	Westl. El.
	28	11.2	Ob. Konj.
April	1	11.5	Östl. El.
	5	6.3	Unt. Konj.
	9	4.9	Westl. El.
	13	9.4	Ob. Konj.
	17	9.9	Östl. El.
	21	4.8	Unt. Konj.
	25	3.5	Westl. El.
	29	8.1	Ob. Konj.
Mai	3	8.6	Östl. El.
	7	3.6	Unt. Konj.
	11	2.4	Westl. El.
	15	7.1	Ob. Konj.
	19	7.8	Östl. El.
	23	3.0	Unt. Konj.
	27	1.9	Westl. El.
	31	6.6	Ob. Konj.
Juni	4	7.4	Östl. El.
	8	2.6	Unt. Konj.

TITAN

		h	
Okt.	26	10.6	Östl. El.
	30	5.8	Unt. Konj.
Nov.	3	6.1	Westl. El.
	7	11.0	Ob. Konj.
	11	10.5	Östl. El.
	15	5.6	Unt. Konj.
	19	5.8	Westl. El.
	23	10.8	Ob. Konj.
	27	9.9	Östl. El.
Dez.	1	5.0	Unt. Konj.
	5	5.3	Westl. El.
	9	10.0	Ob. Konj.
	13	9.1	Östl. El.
	17	4.1	Unt. Konj.
	21	4.2	Westl. El.
	25	8.9	Ob. Konj.
	29	7.8	Östl. El.

HYPERION

		h	
Jan.	6	13.8	Unt. Konj.
	11	8.0	Westl. El.
	16	0.8	Ob. Konj.
	21	19.8	Östl. El.
	27	16.8	Unt. Konj.
	1	10.8	Westl. El.
Febr.	6	3.5	Ob. Konj.
	11	22.6	Östl. El.
	17	19.8	Unt. Konj.
	22	14.0	Westl. El.
	27	6.5	Ob. Konj.
März	5	1.8	Östl. El.
	10	23.5	Unt. Konj.
	15	17.7	Westl. El.
	20	10.2	Ob. Konj.
	26	6.0	Östl. El.
April	1	4.3	Unt. Konj.
	5	22.6	Westl. El.
	10	15.2	Ob. Konj.
	16	11.9	Östl. El.
	22	10.7	Unt. Konj.
	27	4.9	Westl. El.
Mai	1	21.9	Ob. Konj.
	7	19.6	Östl. El.
	13	18.6	Unt. Konj.
	18	12.5	Westl. El.
	23	6.2	Ob. Konj.
	29	5.0	Östl. El.
Juni	4	3.9	Unt. Konj.
	8	21.6	Westl. El.
Okt.	26	23.8	Östl. El.
Nov.	1	15.5	Unt. Konj.
	6	4.6	Westl. El.
	11	5.3	Ob. Konj.
	17	11.7	Östl. El.
	23	2.0	Unt. Konj.
	27	14.6	Westl. El.
Dez.	2	15.9	Ob. Konj.
	8	22.1	Östl. El.
	14	11.3	Unt. Konj.
	18	23.4	Westl. El.
	24	1.1	Ob. Konj.
	30	6.9	Östl. El.

JAPETUS

		h	
Jan.	20	8.4	Unt. Konj.
Febr.	7	22.0	Westl. El.
	27	14.4	Ob. Konj.
März	20	3.7	Östl. El.
April	8	15.7	Unt. Konj.
	27	10.7	Westl. El.
Mai	17	12.5	Ob. Konj.
Juni	7	15.5	Östl. El.
Okt.	26	22.6	Ob. Konj.
Nov.	17	1.7	Östl. El.
Dez.	6	15.0	Unt. Konj.
	25	14.6	Westl. El.

	h	
Jan.		
1	17	♃ ☍ ☉
2	17	♀ ☌ ☾
4	8	♂ ☌ ☾
6	6	♀ im Aphel
7	15	☿ gr. westl. El. 23°13′
8	0	♂ im Perihel
14	17	♃ ☌ ☾
18	11	♄ ☌ ☾
28	10	♆ ☍ ☉
29	14	☿ im Aphel
30	6	☿ ☌ ☾
Febr.		
1	23	♀ ☌ ☾
2	8	♂ ☌ ☾
10	19	♃ ☌ ☾
13	1	♀ ☌ ♂, ♀ 35′ S.
14	2	♄ ☍ ☉
14	15	♄ ☌ ☾
16	22	♅ ☌ ☉
23	9	☿ obere ☌ ☉
März		
2	15	☿ ☌ ☾
3	6	♂ ☌ ☾
3	21	♀ ☌ ☾
10	0	♃ ☌ ☾
11	6	☿ ☌ ♂, ☿ 59′ N.
13	18	♄ ☌ ☾
14	13	☿ im Perihel
21	2	☿ gr. östl. El. 18°35′
April		
1	3	♂ ☌ ☾
1	3	☿ ☌ ☾
2	14	♀ ☌ ☾
6	9	♃ ☌ ☾
7	19	☿ untere ☌ ☉
9	21	♄ ☌ ☾
24	8	♀ im Perihel
27	13	☿ im Aphel
28	4	☿ ☌ ☾
29	22	♂ ☌ ☾
Mai		
2	8	♀ ☌ ☾
4	0	♃ ☌ ☾
5	19	☿ gr. westl. El. 26°36′
7	3	♄ ☌ ☾
9	7	♂ ☌ ☉
25	11	♀ ☌ ♃, ♀ 2°7′ N.
28	0	☿ ☌ ☾
28	17	♂ ☌ ☾
31	18	♃ ☌ ☾
Juni		
1	6	♀ ☌ ☾
3	13	♄ ☌ ☾
5	12	☿ ☌ ♂, ☿ 0°21′ S.
10	13	☿ im Perihel
11	2	☿ obere ☌ ☉
26	11	♂ ☌ ☾
26	15	☿ ☌ ♃, ☿ 1°38′ N.
28	15	♃ ☌ ☾
28	21	☿ ☌ ☾
Juli		
1	0	♀ ☌ ☾
1	3	♄ ☌ ☾
2	9	♀ ☌ ♄, ♀ 0°10′ S.
4	19	♀ gr. östl. El. 45°28′
5	15	♀ ☌ α Leon., ♀ 33′ N.
18	5	☿ gr. östl. El. 26°47′
20	14	♃ ☌ ☉
24	12	☿ im Aphel
25	5	♂ ☌ ☾
26	11	♃ ☌ ☾
28	15	☿ ☌ ☾
28	18	♄ ☌ ☾
29	5	♄ ☌ α Leon., ♄ 59′ N.
30	5	♀ ☌ ☾
Aug.		
1	22	♆ ☌ ☉
8	11	♀ im größten Glanz
15	1	☿ untere ☌ ☉
18	23	♀ im Aphel
22	22	♂ ☌ ☾
23	6	♃ ☌ ☾
23	10	♅ ☍ ☉
24	2	☿ ☌ ☾
25	9	♄ ☌ ☾
25	12	♄ ☌ ☉
27	1	♀ ☌ ☾
Sept.		
1	7	☿ gr. westl. El. 18°8′
1	21	♂ ☌ ♃, ♂ 0°41′ N.
6	12	☿ im Perihel
7	15	☿ ☌ α Leon., ☿ 44′ N.
10	20	☿ ☌ ♄, ☿ 0°7′ N.
12	15	♀ untere ☌ ☉
19	23	♃ ☌ ☾
20	15	♂ ☌ ☾
21	22	♄ ☌ ☾
22	7	♀ ☌ ☾
23	16	☿ ☌ ☾
26	20	☿ obere ☌ ☉
Okt.		
6	22	♂ ☌ α Leon., ♂ 56′ N.
17	13	♃ ☌ ☾
19	6	♂ ☌ ☾
19	10	♄ ☌ ☾
19	12	♀ im größten Glanz
19	21	♀ ☌ ☾
20	11	☿ im Aphel
24	0	♂ ☌ ♄, ♂ 0°5′ S.
24	22	☿ ☌ ☾
Nov.		
3	10	☿ ☌ δ Scorpii, ☿ 27′ S.
12	9	☿ gr. östl. El. 22°48′
14	0	♃ ☌ ☾
15	20	♄ ☌ ☾
16	19	♂ ☌ ☾
18	1	♀ ☌ ☾
23	9	♀ gr. westl. El. 46°44′
23	16	☿ ☌ ☾
Dez.		
2	11	☿ untere ☌ ☉
3	11	☿ im Perihel
9	12	♀ im Perihel
11	10	♃ ☌ ☾
13	5	♄ ☌ ☾
15	7	♂ ☌ ☾
17	18	♂ im Aphel
17	21	♀ ☌ ☾
19	23	☿ ☌ ☾
21	4	☿ gr. westl. El. 21°47′

Halber Tagbogen

δ	Geographische Breite φ										
	+45°	+46°	+47°	+48°	+49°	+50°	+51°	+52°	+53°	+54°	+55°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
0	6 3.3	6 3.4	6 3.4	6 3.5	6 3.5	6 3.6	6 3.7	6 3.8	6 3.9	6 4.0	6 4.1
+1	6 7.3	6 7.5	6 7.7	6 7.9	6 8.1	6 8.4	6 8.6	6 8.9	6 9.2	6 9.5	6 9.8
2	6 11.3	6 11.6	6 12.0	6 12.4	6 12.8	6 13.2	6 13.6	6 14.0	6 14.5	6 15.0	6 15.5
3	6 15.3	6 15.8	6 16.3	6 16.8	6 17.4	6 18.0	6 18.6	6 19.2	6 19.8	6 20.5	6 21.2
4	6 19.4	6 20.0	6 20.6	6 21.3	6 22.0	6 22.8	6 23.5	6 24.4	6 25.2	6 26.1	6 27.0
+5	6 23.4	6 24.2	6 25.0	6 25.8	6 26.7	6 27.6	6 28.6	6 29.6	6 30.6	6 31.7	6 32.8
6	6 27.5	6 28.4	6 29.3	6 30.4	6 31.4	6 32.5	6 33.6	6 34.8	6 36.0	6 37.3	6 38.7
7	6 31.6	6 32.6	6 33.7	6 34.9	6 36.1	6 37.4	6 38.7	6 40.0	6 41.5	6 43.0	6 44.6
8	6 35.7	6 36.9	6 38.2	6 39.5	6 40.9	6 42.3	6 43.7	6 45.3	6 47.0	6 48.7	6 50.5
9	6 39.8	6 41.2	6 42.6	6 44.1	6 45.6	6 47.3	6 48.9	6 50.7	6 52.6	6 54.5	6 56.5
+10	6 44.0	6 45.6	6 47.1	6 48.8	6 50.5	6 52.3	6 54.2	6 56.1	6 58.2	7 0.3	7 2.6
11	6 48.2	6 49.9	6 51.7	6 53.5	6 55.4	6 57.4	6 59.4	7 1.6	7 3.9	7 6.3	7 8.8
12	6 52.5	6 54.4	6 56.3	6 58.3	7 0.4	7 2.5	7 4.8	7 7.2	7 9.7	7 12.3	7 15.1
13	6 56.9	6 58.9	7 1.0	7 3.1	7 5.4	7 7.8	7 10.2	7 12.8	7 15.5	7 18.4	7 21.4
14	7 1.3	7 3.4	7 5.7	7 8.0	7 10.5	7 13.1	7 15.7	7 18.6	7 21.5	7 24.6	7 27.9
+15	7 5.7	7 8.1	7 10.5	7 13.0	7 15.7	7 18.5	7 21.4	7 24.4	7 27.6	7 31.0	7 34.6
16	7 10.2	7 12.7	7 15.4	7 18.1	7 21.0	7 23.9	7 27.1	7 30.4	7 33.8	7 37.5	7 41.4
17	7 14.8	7 17.5	7 20.3	7 23.3	7 26.3	7 29.5	7 32.9	7 36.5	7 40.2	7 44.1	7 48.3
18	7 19.5	7 22.4	7 25.4	7 28.5	7 31.8	7 35.3	7 38.9	7 42.7	7 46.7	7 50.9	7 55.4
19	7 24.3	7 27.4	7 30.6	7 33.9	7 37.4	7 41.1	7 45.0	7 49.1	7 53.4	7 57.9	8 2.8
+20	7 29.2	7 32.4	7 35.9	7 39.4	7 43.2	7 47.1	7 51.3	7 55.6	8 0.3	8 5.2	8 10.4
21	7 34.1	7 37.6	7 41.3	7 45.1	7 49.1	7 53.3	7 57.7	8 2.4	8 7.3	8 12.6	8 18.2
22	7 39.2	7 42.9	7 46.8	7 50.9	7 55.1	7 59.6	8 4.3	8 9.4	8 14.7	8 20.3	8 26.4
23	7 44.4	7 48.4	7 52.5	7 56.8	8 1.4	8 6.1	8 11.2	8 16.6	8 22.3	8 28.3	8 34.9
24	7 49.8	7 54.0	7 58.3	8 2.9	8 7.8	8 12.9	8 18.3	8 24.0	8 30.2	8 36.7	8 43.8
+25	7 55.3	7 59.8	8 4.4	8 9.3	8 14.4	8 19.9	8 25.7	8 31.8	8 38.4	8 45.5	8 53.1
26	8 1.0	8 5.7	8 10.7	8 15.8	8 21.3	8 27.1	8 33.4	8 40.0	8 47.0	8 54.7	9 3.0
27	8 6.8	8 11.8	8 17.1	8 22.6	8 28.5	8 34.7	8 41.4	8 48.5	8 56.1	9 4.4	9 13.5
28	8 12.9	8 18.2	8 23.8	8 29.7	8 36.0	8 42.6	8 49.8	8 57.5	9 5.8	9 14.9	9 24.8
29	8 19.2	8 24.8	8 30.8	8 37.1	8 43.8	8 51.0	8 58.7	9 7.0	9 16.1	9 26.0	9 37.1
+30	8 25.7	8 31.7	8 38.1	8 44.8	8 52.0	8 59.7	9 8.1	9 17.2	9 27.1	9 38.2	9 50.7

Halber Tagbogen

δ	Geographische Breite φ										
	+45°	+46°	+47°	+48°	+49°	+50°	+51°	+52°	+53°	+54°	+55°
0	6h 3m.3	6h 3m.4	6h 3m.4	6h 3m.5	6h 3m.5	6h 3m.6	6h 3m.7	6h 3m.8	6h 3m.9	6h 4m.0	6h 4m.1
−1	5 59.3	5 59.2	5 59.1	5 59.0	5 58.9	5 58.9	5 58.8	5 58.7	5 58.6	5 58.4	5 58.3
2	5 55.3	5 55.1	5 54.8	5 54.6	5 54.3	5 54.1	5 53.8	5 53.5	5 53.3	5 52.9	5 52.6
3	5 51.3	5 50.9	5 50.5	5 50.1	5 49.7	5 49.3	5 48.9	5 48.4	5 47.9	5 47.4	5 46.9
4	5 47.3	5 46.8	5 46.2	5 45.7	5 45.1	5 44.5	5 43.9	5 43.3	5 42.6	5 41.9	5 41.2
−5	5 43.2	5 42.6	5 41.9	5 41.2	5 40.5	5 39.7	5 38.9	5 38.1	5 37.2	5 36.3	5 35.4
6	5 39.2	5 38.4	5 37.6	5 36.8	5 35.8	5 34.9	5 33.9	5 32.9	5 31.8	5 30.8	5 29.6
7	5 35.1	5 34.2	5 33.2	5 32.2	5 31.1	5 30.0	5 28.9	5 27.7	5 26.4	5 25.1	5 23.8
8	5 31.0	5 29.9	5 28.8	5 27.6	5 26.4	5 25.1	5 23.8	5 22.4	5 21.0	5 19.5	5 17.9
9	5 26.9	5 25.7	5 24.4	5 23.0	5 21.7	5 20.2	5 18.7	5 17.1	5 15.5	5 13.7	5 11.9
−10	5 22.8	5 21.4	5 19.9	5 18.4	5 16.9	5 15.2	5 13.5	5 11.8	5 9.9	5 7.9	5 5.9
11	5 18.6	5 17.0	5 15.4	5 13.8	5 12.0	5 10.2	5 8.3	5 6.3	5 4.3	5 2.1	4 59.8
12	5 14.3	5 12.6	5 10.9	5 9.0	5 7.1	5 5.1	5 3.0	5 0.9	4 58.6	4 56.2	4 53.7
13	5 10.1	5 8.2	5 6.3	5 4.3	5 2.2	5 0.0	4 57.7	4 55.3	4 52.8	4 50.2	4 47.4
14	5 5.7	5 3.7	5 1.6	4 59.5	4 57.1	4 54.8	4 52.3	4 49.7	4 46.9	4 44.1	4 41.0
−15	5 1.4	4 59.2	4 56.9	4 54.5	4 52.0	4 49.5	4 46.8	4 43.9	4 41.0	4 37.8	4 34.5
16	4 56.9	4 54.6	4 52.1	4 49.5	4 46.9	4 44.1	4 41.2	4 38.1	4 34.9	4 31.5	4 27.9
17	4 52.4	4 49.9	4 47.2	4 44.5	4 41.6	4 38.6	4 35.4	4 32.1	4 28.7	4 25.0	4 21.1
18	4 47.8	4 45.1	4 42.2	4 39.3	4 36.2	4 33.0	4 29.6	4 26.1	4 22.3	4 18.4	4 14.2
19	4 43.1	4 40.2	4 37.2	4 34.0	4 30.7	4 27.3	4 23.7	4 19.9	4 15.8	4 11.6	4 7.1
−20	4 38.4	4 35.3	4 32.0	4 28.7	4 25.1	4 21.4	4 17.5	4 13.5	4 9.1	4 4.6	3 59.7
21	4 33.5	4 30.2	4 26.8	4 23.2	4 19.4	4 15.4	4 11.3	4 6.9	4 2.3	3 57.4	3 52.2
22	4 28.6	4 25.0	4 21.4	4 17.5	4 13.5	4 9.3	4 4.9	4 0.2	3 55.2	3 50.0	3 44.3
23	4 23.5	4 19.7	4 15.8	4 11.8	4 7.5	4 3.0	3 58.2	3 53.2	3 47.9	3 42.3	3 36.2
24	4 18.3	4 14.3	4 10.2	4 5.8	4 1.3	3 56.5	3 51.4	3 46.0	3 40.3	3 34.3	3 27.8
−25	4 12.9	4 8.7	4 4.3	3 59.7	3 54.9	3 49.7	3 44.3	3 38.6	3 32.4	3 25.9	3 18.9
26	4 7.4	4 3.0	3 58.3	3 53.4	3 48.2	3 42.8	3 37.0	3 30.8	3 24.2	3 17.2	3 9.6
27	4 1.7	3 57.0	3 52.1	3 46.9	3 41.3	3 35.5	3 29.3	3 22.7	3 15.7	3 8.0	2 59.8
28	3 55.9	3 50.9	3 45.6	3 40.1	3 34.2	3 28.0	3 21.3	3 14.2	3 6.6	2 58.3	2 49.3
29	3 49.8	3 44.5	3 38.9	3 33.0	3 26.7	3 20.1	3 12.9	3 5.3	2 57.0	2 48.0	2 38.1
−30	3 43.6	3 37.9	3 32.0	3 25.7	3 18.9	3 11.8	3 4.1	2 55.8	2 46.8	2 36.9	2 25.9

Reduktionstafel

für Auf- und Untergang der Sonne

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

Tag	Geographische Breite φ									
	+45°	+46°	+47°	+48°	+49°	+51°	+52°	+53°	+54°	+55°
1919	m	m	m	m	m	m	m	m	m	m
Jan. 0	−20.3	−16.6	−12.8	−8.7	−4.4	+4.7	+ 9.7	+14.9	+20.6	+26.5
10	−19.0	−15.5	−11.9	−8.1	−4.2	+4.4	+ 9.0	+13.9	+19.0	+24.6
20	−16.9	−13.9	−10.6	−7.2	−3.8	+3.9	+ 8.0	+12.3	+16.8	+21.6
30	−14.4	−11.8	− 9.0	−6.1	−3.2	+3.3	+ 6.7	+10.3	+14.1	+18.1
Febr. 9	−11.5	− 9.4	− 7.2	−4.9	−2.5	+2.6	+ 5.3	+ 8.2	+11.2	+14.4
19	− 8.5	− 6.9	− 5.3	−3.6	−1.9	+1.9	+ 3.9	+ 6.0	+ 8.2	+10.6
März 1	− 5.5	− 4.4	− 3.5	−2.3	−1.2	+1.3	+ 2.5	+ 3.9	+ 5.3	+ 6.7
11	− 2.5	− 2.0	− 1.6	−1.0	−0.6	+0.6	+ 1.1	+ 1.7	+ 2.4	+ 3.0
21	+ 0.6	+ 0.5	+ 0.3	+0.2	+0.1	−0.1	− 0.3	− 0.4	− 0.5	− 0.8
31	+ 3.6	+ 3.0	+ 2.2	+1.5	+0.8	−0.8	− 1.7	− 2.5	− 3.5	− 4.5
April 10	+ 6.6	+ 5.4	+ 4.1	+2.8	+1.4	−1.4	− 3.1	− 4.7	− 6.5	− 8.2
20	+ 9.7	+ 7.9	+ 6.0	+4.1	+2.1	−2.1	− 4.5	− 6.9	− 9.5	−12.1
30	+12.7	+10.4	+ 7.9	+5.4	+2.7	−2.9	− 6.0	− 9.1	−12.5	−16.0
Mai 10	+15.6	+12.7	+ 9.7	+6.6	+3.4	−3.5	− 7.3	−11.2	−15.4	−19.9
20	+18.1	+14.8	+11.4	+7.7	+4.0	−4.1	− 8.6	−13.2	−18.2	−23.5
30	+20.3	+16.7	+12.8	+8.7	+4.6	−4.7	− 9.7	−15.1	−20.6	−26.8
Juni 9	+21.9	+17.9	+13.7	+9.5	+4.9	−5.1	−10.5	−16.3	−22.5	−29.1
19	+22.6	+18.5	+14.2	+9.8	+5.0	−5.3	−10.9	−16.9	−23.3	−30.2
29	+22.4	+18.3	+14.0	+9.6	+5.0	−5.2	−10.7	−16.7	−23.0	−29.7
Juli 9	+21.2	+17.3	+13.3	+9.2	+4.7	−4.9	−10.2	−15.7	−21.7	−28.0
19	+19.2	+15.8	+12.1	+8.3	+4.3	−4.5	− 9.2	−14.2	−19.5	−25.2
29	+16.9	+13.8	+10.6	+7.2	+3.7	−3.9	− 8.0	−12.3	−16.9	−21.7
Aug. 8	+14.2	+11.6	+ 8.9	+6.0	+3.1	−3.3	− 6.6	−10.2	−14.1	−18.0
18	+11.3	+ 9.2	+ 7.0	+4.8	+2.5	−2.6	− 5.2	− 8.0	−11.1	−14.2
28	+ 8.3	+ 6.8	+ 5.2	+3.5	+1.8	−1.9	− 3.8	− 5.9	− 8.1	−10.3
Sept. 7	+ 5.4	+ 4.3	+ 3.3	+2.2	+1.2	−1.3	− 2.4	− 3.8	− 5.2	− 6.5
17	+ 2.3	+ 1.9	+ 1.5	+1.0	+0.5	−0.6	− 1.0	− 1.7	− 2.3	− 2.8
27	− 0.7	− 0.6	− 0.4	−0.3	−0.1	+0.1	+ 0.4	+ 0.4	+ 0.6	+ 0.9
Okt. 7	− 3.6	− 3.0	− 2.3	−1.5	−0.7	+0.8	+ 1.7	+ 2.6	+ 3.5	+ 4.6
17	− 6.7	− 5.4	− 4.1	−2.8	−1.4	+1.5	+ 3.1	+ 4.7	+ 6.4	+ 8.3
27	− 9.6	− 7.9	− 6.0	−4.1	−2.0	+2.1	+ 4.5	+ 6.8	+ 9.3	+12.1
Nov. 6	−12.6	−10.2	− 7.8	−5.4	−2.7	+2.8	+ 5.9	+ 8.9	+12.3	+15.8
16	−15.4	−12.5	− 9.6	−6.6	−3.3	+3.5	+ 7.2	+11.0	+15.2	+19.4
26	−17.7	−14.5	−11.1	−7.6	−3.9	+4.1	+ 8.3	+12.9	+17.7	+22.7
Dez. 6	−19.6	−16.0	−12.3	−8.4	−4.3	+4.6	+ 9.2	+14.4	+19.7	+25.4
16	−20.7	−16.9	−13.0	−8.9	−4.5	+4.8	+ 9.8	+15.2	+20.8	+26.9
26	−20.7	−16.9	−13.0	−8.9	−4.5	+4.8	+ 9.8	+15.2	+20.9	+27.1
36	−19.8	−16.2	−12.5	−8.5	−4.3	+4.6	+ 9.4	+14.5	+20.0	+25.8

Reduktionstafel

für Auf- und Untergang des Mondes

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

t*)	Geographische Breite φ									
	+45°	+46°	+47°	+48°	+49°	+51°	+52°	+53°	+54°	+55°
h m	m	m	m	m	m	m	m	m	m	m
3 0	−37.4	−30.9	−23.9	−16.5	−8.6	+9.3	+19.4	+30.7	+43.3	+57.7
10	−34.8	−28.7	−22.2	−15.3	−7.9	+8.5	+17.8	+27.9	+39.1	+51.7
20	−32.3	−26.5	−20.5	−14.1	−7.3	+7.8	+16.2	+25.4	+35.3	+46.4
30	−29.9	−24.5	−18.9	−13.0	−6.7	+7.2	+14.8	+23.1	+32.0	+41.8
40	−27.6	−22.6	−17.4	−12.0	−6.1	+6.6	+13.5	+21.0	+29.1	+37.8
50	−25.4	−20.8	−16.0	−11.0	−5.6	+6.0	+12.3	+19.1	+26.4	+34.2
4 0	−23.3	−19.1	−14.6	−10.0	−5.1	+5.4	+11.2	+17.3	+23.9	+30.9
10	−21.3	−17.4	−13.4	− 9.2	−4.7	+5.0	+10.2	+15.7	+21.6	+27.9
20	−19.3	−15.8	−12.1	− 8.3	−4.2	+4.5	+ 9.2	+14.1	+19.4	+25.0
30	−17.4	−14.2	−10.9	− 7.4	−3.8	+4.0	+ 8.2	+12.7	+17.4	+22.4
40	−15.6	−12.7	− 9.8	− 6.6	−3.4	+3.6	+ 7.3	+11.3	+15.4	+19.8
50	−13.8	−11.3	− 8.6	− 5.9	−3.0	+3.2	+ 6.5	+ 9.9	+13.6	+17.4
5 0	−12.0	− 9.8	− 7.5	− 5.1	−2.6	+2.7	+ 5.6	+ 8.6	+11.8	+15.2
10	−10.3	− 8.4	− 6.5	− 4.4	−2.2	+2.4	+ 4.8	+ 7.4	+10.1	+12.9
20	− 8.6	− 7.0	− 5.4	− 3.7	−1.9	+2.0	+ 4.0	+ 6.2	+ 8.4	+10.8
30	− 7.0	− 5.7	− 4.4	− 3.0	−1.5	+1.6	+ 3.2	+ 5.0	+ 6.8	+ 8.7
40	− 5.4	− 4.4	− 3.3	− 2.3	−1.1	+1.2	+ 2.5	+ 3.8	+ 5.2	+ 6.6
50	− 3.7	− 3.0	− 2.3	− 1.6	−0.8	+0.8	+ 1.7	+ 2.6	+ 3.6	+ 4.6
6 0	− 2.1	− 1.7	− 1.3	− 0.9	−0.5	+0.5	+ 1.0	+ 1.5	+ 2.0	+ 2.6
10	− 0.5	− 0.4	− 0.3	− 0.2	−0.1	+0.1	+ 0.2	+ 0.4	+ 0.5	+ 0.6
20	+ 1.1	+ 0.9	+ 0.7	+ 0.5	+0.2	−0.2	− 0.5	− 0.8	− 1.1	− 1.4
30	+ 2.7	+ 2.2	+ 1.7	+ 1.2	+0.6	−0.6	− 1.3	− 1.9	− 2.6	− 3.4
40	+ 4.4	+ 3.5	+ 2.7	+ 1.9	+1.0	−1.0	− 2.0	− 3.1	− 4.2	− 5.4
50	+ 6.0	+ 4.9	+ 3.7	+ 2.5	+1.3	−1.4	− 2.7	− 4.3	− 5.8	− 7.4
7 0	+ 7.6	+ 6.2	+ 4.8	+ 3.2	+1.6	−1.7	− 3.5	− 5.4	− 7.4	− 9.5
10	+ 9.3	+ 7.6	+ 5.9	+ 4.0	+2.0	−2.1	− 4.3	− 6.6	− 9.0	−11.6
20	+11.0	+ 9.0	+ 6.9	+ 4.7	+2.4	−2.5	− 5.1	− 7.8	−10.7	−13.8
30	+12.7	+10.4	+ 7.9	+ 5.4	+2.8	−2.9	− 5.9	− 9.1	−12.4	−16.0
40	+14.5	+11.9	+ 9.1	+ 6.2	+3.2	−3.3	− 6.8	−10.4	−14.3	−18.3
50	+16.3	+13.3	+10.2	+ 7.0	+3.6	−3.7	− 7.7	−11.8	−16.2	−20.8
8 0	+18.1	+14.8	+11.4	+ 7.8	+4.0	−4.2	− 8.6	−13.2	−18.1	−23.4
10	+20.0	+16.4	+12.6	+ 8.7	+4.4	−4.6	− 9.7	−14.8	−20.2	−26.2
20	+22.0	+18.0	+13.8	+ 9.5	+4.9	−5.1	−10.7	−16.3	−22.5	−29.0
30	+24.1	+19.7	+15.2	+10.4	+5.3	−5.6	−11.6	−18.0	−24.8	−32.1
40	+26.4	+21.5	+16.6	+11.4	+5.9	−6.2	−12.7	−19.8	−27.4	−35.7
50	+28.6	+23.3	+18.0	+12.4	+6.4	−6.8	−14.0	−21.8	−30.2	−39.5
9 0	+30.8	+25.3	+19.5	+13.4	+6.9	−7.4	−15.3	−23.9	−33.2	−43.5

*) *t* ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergange der Zeitunterschied zwischen Kulmination und Untergang

Julianische Periode

I. Anzahl der am 0. Januar seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	99951	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	98647	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
72	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	70888	07413	43938	80463
88	53199	89724	26249	62774	99299	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	19	19	20	20	20

Ia. Anzahl der am 0. jedes Monats seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0	31	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Julianische Periode

I. Anzahl der am 0. Januar seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	**21**	**21**	**21**	**22**	**22**	**23**	**23**	**23**	**24**
0	86307	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	98804	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	99456	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	75428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	98949	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84	16988	53513	90038	26563	63088	99603	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]	51544
	21	**21**	**21**	**22**	**22**	**23**	**23**	**23**	**24**	**24**

[1]) Die Zahlen geben die am —1. Jan. seit Anfang der Periode verflossenen Tage

Ia. Anzahl der am 0. jedes Monats seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0[2])	31[2])	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern

[2]) In den Jahren 1700, 1800, 1900 um 1 zu vergrößern

Julianische Periode

II. Anzahl der seit Beginn der Periode am 0. jedes Monats im gregorianischen Kalender verflossenen Tage

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1860	2400	410	441	470	501	531	562	592	623	654	684	715	745
1861		776	807	835	866	896	927	957	988	*019	*049	*080	*110
1862	2401	141	172	200	231	261	292	322	353	384	414	445	475
1863		506	537	565	596	626	657	687	718	749	779	810	840
1864		871	902	931	962	992	*023	*053	*084	*115	*145	*176	*206
1865	2402	237	268	296	327	357	388	418	449	480	510	541	571
1866		602	633	661	692	722	753	783	814	845	875	906	936
1867		967	998	*026	*057	*087	*118	*148	*179	*210	*240	*271	*301
1868	2403	332	363	392	423	453	484	514	545	576	606	637	667
1869		698	729	757	788	818	849	879	910	941	971	*002	*032
1870	2404	063	094	122	153	183	214	244	275	306	336	367	397
1871		428	459	487	518	548	579	609	640	671	701	732	762
1872		793	824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405	159	190	218	249	279	310	340	371	402	432	463	493
1874		524	555	583	614	644	675	705	736	767	797	828	858
1875		889	920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406	254	285	314	345	375	406	436	467	498	528	559	589
1877		620	651	679	710	740	771	801	832	863	893	924	954
1878		985	*016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407	350	381	409	440	470	501	531	562	593	623	654	684
1880		715	746	775	806	836	867	897	928	959	989	*020	*050
1881	2408	081	112	140	171	201	232	262	293	324	354	385	415
1882		446	477	505	536	566	597	627	658	689	719	750	780
1883		811	842	870	901	931	962	992	*023	*054	*084	*115	*145
1884	2409	176	207	236	267	297	328	358	389	420	450	481	511
1885		542	573	601	632	662	693	723	754	785	815	846	876
1886		907	938	966	997	*027	*058	*088	*119	*150	*180	*211	*241
1887	2410	272	303	331	362	392	423	453	484	515	545	576	606
1888		637	668	697	728	758	789	819	850	881	911	942	972
1889	2411	003	034	062	093	123	154	184	215	246	276	307	337
1890		368	399	427	458	488	519	549	580	611	641	672	702
1891		733	764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412	098	129	158	189	219	250	280	311	342	372	403	433
1893		464	495	523	554	584	615	645	676	707	737	768	798
1894		829	860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413	194	225	253	284	314	345	375	406	437	467	498	528
1896		559	590	619	650	680	711	741	772	803	833	864	894
1897		925	956	984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414	290	321	349	380	410	441	471	502	533	563	594	624
1899		655	686	714	745	775	806	836	867	898	928	959	989

Julianische Periode

II. Anzahl der seit Beginn der Periode am 0. jedes Monats im gregorianischen Kalender verflossenen Tage

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1900	2415	020	051	079	110	140	171	201	232	263	293	324	354
1901		385	416	444	475	505	536	566	597	628	658	689	719
1902		750	781	809	840	870	901	931	962	993	*023	*054	*084
1903	2416	115	146	174	205	235	266	296	327	358	388	419	449
1904		480	511	540	571	601	632	662	693	724	754	785	815
1905		846	877	905	936	966	997	*027	*058	*089	*119	*150	*180
1906	2417	211	242	270	301	331	362	392	423	454	484	515	545
1907		576	607	635	666	696	727	757	788	819	849	880	910
1908		941	972	*001	*032	*062	*093	*123	*154	*185	*215	*246	*276
1909	2418	307	338	366	397	427	458	488	519	550	580	611	641
1910		672	703	731	762	792	823	853	884	915	945	976	*006
1911	2419	037	068	096	127	157	188	218	249	280	310	341	371
1912		402	433	462	493	523	554	584	615	646	676	707	737
1913		768	799	827	858	888	919	949	980	*011	*041	*072	*102
1914	2420	133	164	192	223	253	284	314	345	376	406	437	467
1915		498	529	557	588	618	649	679	710	741	771	802	832
1916		863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421	229	260	288	319	349	380	410	441	472	502	533	563
1918		594	625	653	684	714	745	775	806	837	867	898	928
1919		959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422	324	355	384	415	445	476	506	537	568	598	629	659
1921		690	721	749	780	810	841	871	902	933	963	994	*024
1922	2423	055	086	114	145	175	206	236	267	298	328	359	389
1923		420	451	479	510	540	571	601	632	663	693	724	754
1924		785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424	151	182	210	241	271	302	332	363	394	424	455	485
1926		516	547	575	606	636	667	697	728	759	789	820	850
1927		881	912	940	971	*001	*032	*062	*093	*124	*154	*185	*215
1928	2425	246	277	306	337	367	398	428	459	490	520	551	581
1929		612	643	671	702	732	763	793	824	855	885	916	946
1930		977	*008	*036	*067	*097	*128	*158	*189	*220	*250	*281	*311
1931	2426	342	373	401	432	462	493	523	554	585	615	646	676
1932		707	738	767	798	828	859	889	920	951	981	*012	*042
1933	2427	073	104	132	163	193	224	254	285	316	346	377	407
1934		438	469	497	528	558	589	619	650	681	711	742	772
1935		803	834	862	893	923	954	984	*015	*046	*076	*107	*137
1936	2428	168	199	228	259	289	320	350	381	412	442	473	503
1937		534	565	593	624	654	685	715	746	777	807	838	868
1938		899	930	958	989	*019	*050	*080	*111	*142	*172	*203	*233
1939	2429	264	295	323	354	384	415	445	476	507	537	568	598

Red.	0^m	1^m	2^m	3^m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 5 15	12 10 29	18 15 44	0.00	0 0	0.50	3 3
1	0 6 5	6 11 20	12 16 34	18 21 49	0.01	0 4	0.51	3 6
2	0 12 10	6 17 25	12 22 40	18 27 54	0.02	0 7	0.52	3 10
3	0 18 16	6 23 30	12 28 45	18 33 59	0.03	0 11	0.53	3 14
4	0 24 21	6 29 36	12 34 50	18 40 5	0.04	0 15	0.54	3 17
5	0 30 26	6 35 41	12 40 55	18 46 10	0.05	0 18	0.55	3 21
6	0 36 31	6 41 46	12 47 1	18 52 15	0.06	0 22	0.56	3 25
7	0 42 37	6 47 51	12 53 6	18 58 20	0.07	0 26	0.57	3 28
8	0 48 42	6 53 56	12 59 11	19 4 26	0.08	0 29	0.58	3 32
9	0 54 47	7 0 2	13 5 16	19 10 31	0.09	0 33	0.59	3 35
10	1 0 52	7 6 7	13 11 21	19 16 36	0.10	0 37	0.60	3 39
11	1 6 58	7 12 12	13 17 27	19 22 41	0.11	0 40	0.61	3 43
12	1 13 3	7 18 17	13 23 32	19 28 47	0.12	0 44	0.62	3 46
13	1 19 8	7 24 23	13 29 37	19 34 52	0.13	0 47	0.63	3 50
14	1 25 13	7 30 28	13 35 42	19 40 57	0.14	0 51	0.64	3 54
15	1 31 19	7 36 33	13 41 48	19 47 2	0.15	0 55	0.65	3 57
16	1 37 24	7 42 38	13 47 53	19 53 7	0.16	0 58	0.66	4 1
17	1 43 29	7 48 44	13 53 58	19 59 13	0.17	1 2	0.67	4 5
18	1 49 34	7 54 49	14 0 3	20 5 18	0.18	1 6	0.68	4 8
19	1 55 40	8 0 54	14 6 9	20 11 23	0.19	1 9	0.69	4 12
20	2 1 45	8 6 59	14 12 14	20 17 28	0.20	1 13	0.70	4 16
21	2 7 50	8 13 5	14 18 19	20 23 34	0.21	1 17	0.71	4 19
22	2 13 55	8 19 10	14 24 24	20 29 39	0.22	1 20	0.72	4 23
23	2 20 1	8 25 15	14 30 30	20 35 44	0.23	1 24	0.73	4 27
24	2 26 6	8 31 20	14 36 35	20 41 49	0.24	1 28	0.74	4 30
25	2 32 11	8 37 26	14 42 40	20 47 55	0.25	1 31	0.75	4 34
26	2 38 16	8 43 31	14 48 45	20 54 0	0.26	1 35	0.76	4 38
27	2 44 22	8 49 36	14 54 51	21 0 5	0.27	1 39	0.77	4 41
28	2 50 27	8 55 41	15 0 56	21 6 10	0.28	1 42	0.78	4 45
29	2 56 32	9 1 47	15 7 1	21 12 16	0.29	1 46	0.79	4 49
30	3 2 37	9 7 52	15 13 6	21 18 21	0.30	1 50	0.80	4 52
31	3 8 43	9 13 57	15 19 12	21 24 26	0.31	1 53	0.81	4 56
32	3 14 48	9 20 2	15 25 17	21 30 31	0.32	1 57	0.82	4 59
33	3 20 53	9 26 8	15 31 22	21 36 37	0.33	2 1	0.83	5 3
34	3 26 58	9 32 13	15 37 27	21 42 42	0.34	2 4	0.84	5 7
35	3 33 3	9 38 18	15 43 33	21 48 47	0.35	2 8	0.85	5 10
36	3 39 9	9 44 23	15 49 38	21 54 52	0.36	2 11	0.86	5 14
37	3 45 14	9 50 28	15 55 43	22 0 58	0.37	2 15	0.87	5 18
38	3 51 19	9 56 34	16 1 48	22 7 3	0.38	2 19	0.88	5 21
39	3 57 24	10 2 39	16 7 54	22 13 8	0.39	2 22	0.89	5 25
40	4 3 30	10 8 44	16 13 59	22 19 13	0.40	2 26	0.90	5 29
41	4 9 35	10 14 49	16 20 4	22 25 19	0.41	2 30	0.91	5 32
42	4 15 40	10 20 55	16 26 9	22 31 24	0.42	2 33	0.92	5 36
43	4 21 45	10 27 0	16 32 14	22 37 29	0.43	2 37	0.93	5 40
44	4 27 51	10 33 5	16 38 20	22 43 34	0.44	2 41	0.94	5 43
45	4 33 56	10 39 10	16 44 25	22 49 39	0.45	2 44	0.95	5 47
46	4 40 1	10 45 16	16 50 30	22 55 45	0.46	2 48	0.96	5 51
47	4 46 6	10 51 21	16 56 35	23 1 50	0.47	2 52	0.97	5 54
48	4 52 12	10 57 26	17 2 41	23 7 55	0.48	2 55	0.98	5 58
49	4 58 17	11 3 31	17 8 46	23 14 0	0.49	2 59	0.99	6 2
50	5 4 22	11 9 37	17 14 51	23 20 6	0.50	3 3	1.00	6 5
51	5 10 27	11 15 42	17 20 56	23 26 11				
52	5 16 33	11 21 47	17 27 2	23 32 16				
53	5 22 38	11 27 52	17 33 7	23 38 21				
54	5 28 43	11 33 58	17 39 12	23 44 27				
55	5 34 48	11 40 3	17 45 17	23 50 32				
56	5 40 54	11 46 8	17 51 23	23 56 37				
57	5 46 59	11 52 13	17 57 28	24 2 42				
58	5 53 4	11 58 19	18 3 33	24 8 48				
59	5 59 9	12 4 24	18 9 38	24 14 53				

Die Reduktion ist zur mittl. Zeit zu addieren

Red.	0m	1m	2m	3m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 6 15	12 12 29	18 18 44	0.00	0 0	0.50	3 3
1	0 6 6	6 12 21	12 18 35	18 24 50	0.01	0 4	0.51	3 7
2	0 12 12	6 18 27	12 24 42	18 30 56	0.02	0 7	0.52	3 10
3	0 18 19	6 24 33	12 30 48	18 37 2	0.03	0 11	0.53	3 14
4	0 24 25	6 30 40	12 36 54	18 43 9	0.04	0 15	0.54	3 18
5	0 30 31	6 36 46	12 43 0	18 49 15	0.05	0 18	0.55	3 21
6	0 36 37	6 42 52	12 49 7	18 55 21	0.06	0 22	0.56	3 25
7	0 42 44	6 48 58	12 55 13	19 1 27	0.07	0 26	0.57	3 29
8	0 48 50	6 55 4	13 1 19	19 7 34	0.08	0 29	0.58	3 32
9	0 54 56	7 1 11	13 7 25	19 13 40	0.09	0 33	0.59	3 36
10	1 1 2	7 7 17	13 13 31	19 19 46	0.10	0 37	0.60	3 40
11	1 7 9	7 13 23	13 19 38	19 25 52	0.11	0 40	0.61	3 43
12	1 13 15	7 19 29	13 25 44	19 31 59	0.12	0 44	0.62	3 47
13	1 19 21	7 25 36	13 31 50	19 38 5	0.13	0 48	0.63	3 51
14	1 25 27	7 31 42	13 37 56	19 44 11	0.14	0 51	0.64	3 54
15	1 31 34	7 37 48	13 44 3	19 50 17	0.15	0 55	0.65	3 58
16	1 37 40	7 43 54	13 50 9	19 56 23	0.16	0 59	0.66	4 2
17	1 43 46	7 50 1	13 56 15	20 2 30	0.17	1 2	0.67	4 5
18	1 49 52	7 56 7	14 2 21	20 8 36	0.18	1 6	0.68	4 9
19	1 55 59	8 2 13	14 8 28	20 14 42	0.19	1 10	0.69	4 13
20	2 2 5	8 8 19	14 14 34	20 20 48	0.20	1 13	0.70	4 16
21	2 8 11	8 14 26	14 20 40	20 26 55	0.21	1 17	0.71	4 20
22	2 14 17	8 20 32	14 26 46	20 33 1	0.22	1 21	0.72	4 24
23	2 20 24	8 26 38	14 32 53	20 39 7	0.23	1 24	0.73	4 27
24	2 26 30	8 32 44	14 38 59	20 45 13	0.24	1 28	0.74	4 31
25	2 32 36	8 38 51	14 45 5	20 51 20	0.25	1 32	0.75	4 35
26	2 38 42	8 44 57	14 51 11	20 57 26	0.26	1 35	0.76	4 38
27	2 44 49	8 51 3	14 57 18	21 3 32	0.27	1 39	0.77	4 42
28	2 50 55	8 57 9	15 3 24	21 9 38	0.28	1 43	0.78	4 46
29	2 57 1	9 3 16	15 9 30	21 15 45	0.29	1 46	0.79	4 49
30	3 3 7	9 9 22	15 15 36	21 21 51	0.30	1 50	0.80	4 53
31	3 9 14	9 15 28	15 21 43	21 27 57	0.31	1 54	0.81	4 57
32	3 15 20	9 21 34	15 27 49	21 34 3	0.32	1 57	0.82	5 0
33	3 21 26	9 27 41	15 33 55	21 40 10	0.33	2 1	0.83	5 4
34	3 27 32	9 33 47	15 40 1	21 46 16	0.34	2 5	0.84	5 8
35	3 33 38	9 39 53	15 46 8	21 52 22	0.35	2 8	0.85	5 11
36	3 39 45	9 45 59	15 52 14	21 58 28	0.36	2 12	0.86	5 15
37	3 45 51	9 52 5	15 58 20	22 4 35	0.37	2 16	0.87	5 19
38	3 51 57	9 58 12	16 4 26	22 10 41	0.38	2 19	0.88	5 22
39	3 58 3	10 4 18	16 10 33	22 16 47	0.39	2 23	0.89	5 26
40	4 4 10	10 10 24	16 16 39	22 22 53	0.40	2 26	0.90	5 30
41	4 10 16	10 16 30	16 22 45	22 29 0	0.41	2 30	0.91	5 33
42	4 16 22	10 22 37	16 28 51	22 35 6	0.42	2 34	0.92	5 37
43	4 22 28	10 28 43	16 34 57	22 41 12	0.43	2 37	0.93	5 41
44	4 28 35	10 34 49	16 41 4	22 47 18	0.44	2 41	0.94	5 44
45	4 34 41	10 40 55	16 47 10	22 53 24	0.45	2 45	0.95	5 48
46	4 40 47	10 47 2	16 53 16	22 59 31	0.46	2 48	0.96	5 52
47	4 46 53	10 53 8	16 59 22	23 5 37	0.47	2 52	0.97	5 55
48	4 53 0	10 59 14	17 5 29	23 11 43	0.48	2 56	0.98	5 59
49	4 59 6	11 5 20	17 11 35	23 17 49	0.49	2 59	0.99	6 3
50	5 5 12	11 11 27	17 17 41	23 23 56	0.50	3 3	1.00	6 6
51	5 11 18	11 17 33	17 23 47	23 30 2				
52	5 17 25	11 23 39	17 29 54	23 36 8				
53	5 23 31	11 29 45	17 36 0	23 42 14				
54	5 29 37	11 35 52	17 42 6	23 48 21				
55	5 35 43	11 41 58	17 48 12	23 54 27				
56	5 41 50	11 48 4	17 54 19	24 0 33				
57	5 47 56	11 54 10	18 0 25	24 6 39				
58	5 54 2	12 0 17	18 6 31	24 12 46				
59	6 0 8	12 6 23	18 12 37	24 18 52				

Die Reduktion ist von der Sternzeit zu subtrahieren

m	0h d	1h d	2h d	3h d	4h d	5h d	s	d
0	0.000000	0.041667	0.083333	0.125000	0.166667	0.208333	0	0.000000
1	.000694	.042361	.084028	.125694	.167361	.209028	1	.000012
2	.001389	.043056	.084722	.126389	.168056	.209722	2	.000023
3	.002083	.043750	.085417	.127083	.168750	.210417	3	.000035
4	.002778	.044444	.086111	.127778	.169444	.211111	4	.000046
5	0.003472	0.045139	0.086806	0.128472	0.170139	0.211806	5	0.000058
6	.004167	.045833	.087500	.129167	.170833	.212500	6	.000069
7	.004861	.046528	.088194	.129861	.171528	.213194	7	.000081
8	.005556	.047222	.088889	.130556	.172222	.213889	8	.000093
9	.006250	.047917	.089583	.131250	.172917	.214583	9	.000104
10	0.006944	0.048611	0.090278	0.131944	0.173611	0.215278	10	0.000116
11	.007639	.049306	.090972	.132639	.174306	.215972	11	.000127
12	.008333	.050000	.091667	.133333	.175000	.216667	12	.000139
13	.009028	.050694	.092361	.134028	.175694	.217361	13	.000150
14	.009722	.051389	.093056	.134722	.176389	.218056	14	.000162
15	0.010417	0.052083	0.093750	0.135417	0.177083	0.218750	15	0.000174
16	.011111	.052778	.094444	.136111	.177778	.219444	16	.000185
17	.011806	.053472	.095139	.136806	.178472	.220139	17	.000197
18	.012500	.054167	.095833	.137500	.179167	.220833	18	.000208
19	.013194	.054861	.096528	.138194	.179861	.221528	19	.000220
20	0.013889	0.055556	0.097222	0.138889	0.180556	0.222222	20	0.000231
21	.014583	.056250	.097917	.139583	.181250	.222917	21	.000243
22	.015278	.056944	.098611	.140278	.181944	.223611	22	.000255
23	.015972	.057639	.099306	.140972	.182639	.224306	23	.000266
24	.016667	.058333	.100000	.141667	.183333	.225000	24	.000278
25	0.017361	0.059028	0.100694	0.142361	0.184028	0.225694	25	0.000289
26	.018056	.059722	.101389	.143056	.184722	.226389	26	.000301
27	.018750	.060417	.102083	.143750	.185417	.227083	27	.000313
28	.019444	.061111	.102778	.144444	.186111	.227778	28	.000324
29	.020139	.061806	.103472	.145139	.186806	.228472	29	.000336
30	0.020833	0.062500	0.104167	0.145833	0.187500	0.229167	30	0.000347
31	.021528	.063194	.104861	.146528	.188194	.229861	31	.000359
32	.022222	.063889	.105556	.147222	.188889	.230556	32	.000370
33	.022917	.064583	.106250	.147917	.189583	.231250	33	.000382
34	.023611	.065278	.106944	.148611	.190278	.231944	34	.000394
35	0.024306	0.065972	0.107639	0.149306	0.190972	0.232639	35	0.000405
36	.025000	.066667	.108333	.150000	.191667	.233333	36	.000417
37	.025694	.067361	.109028	.150694	.192361	.234028	37	.000428
38	.026389	.068056	.109722	.151389	.193056	.234722	38	.000440
39	.027083	.068750	.110417	.152083	.193750	.235417	39	.000451
40	0.027778	0.069444	0.111111	0.152778	0.194444	0.236111	40	0.000463
41	.028472	.070139	.111806	.153472	.195139	.236806	41	.000475
42	.029167	.070833	.112500	.154167	.195833	.237500	42	.000486
43	.029861	.071528	.113194	.154861	.196528	.238194	43	.000498
44	.030556	.072222	.113889	.155556	.197222	.238889	44	.000509
45	0.031250	0.072917	0.114583	0.156250	0.197917	0.239583	45	0.000521
46	.031944	.073611	.115278	.156944	.198611	.240278	46	.000532
47	.032639	.074306	.115972	.157639	.199306	.240972	47	.000544
48	.033333	.075000	.116667	.158333	.200000	.241667	48	.000556
49	.034028	.075694	.117361	.159028	.200694	.242361	49	.000567
50	0.034722	0.076389	0.118056	0.159722	0.201389	0.243056	50	0.000579
51	.035417	.077083	.118750	.160417	.202083	.243750	51	.000590
52	.036111	.077778	.119444	.161111	.202778	.244444	52	.000602
53	.036806	.078472	.120139	.161806	.203472	.245139	53	.000613
54	.037500	.079167	.120833	.162500	.204167	.245833	54	.000625
55	0.038194	0.079861	0.121528	0.163194	0.204861	0.246528	55	0.000637
56	.038889	.080556	.122222	.163889	.205556	.247222	56	.000648
57	.039583	.081250	.122917	.164583	.206250	.247917	57	.000660
58	.040278	.081944	.123611	.165278	.206944	.248611	58	.000671
59	.040972	.082639	.124306	.165972	.207639	.249306	59	.000683

	6^h	7^h	8^h	9^h	10^h	11^h		
m	d	d	d	d	d	d	s	d
0	0.250000	0.291667	0.333333	0.375000	0.416667	0.458333	0	0.000000
1	.250694	.292361	.334028	.375694	.417361	.459028	1	.000012
2	.251389	.293056	.334722	.376389	.418056	.459722	2	.000023
3	.252083	.293750	.335417	.377083	.418750	.460417	3	.000035
4	.252778	.294444	.336111	.377778	.419444	.461111	4	.000046
5	0.253472	0.295139	0.336806	0.378472	0.420139	0.461806	5	0.000058
6	.254167	.295833	.337500	.379167	.420833	.462500	6	.000069
7	.254861	.296528	.338194	.379861	.421528	.463194	7	.000081
8	.255556	.297222	.338889	.380556	.422222	.463889	8	.000093
9	.256250	.297917	.339583	.381250	.422917	.464583	9	.000104
10	0.256944	0.298611	0.340278	0.381944	0.423611	0.465278	10	0.000116
11	.257639	.299306	.340972	.382639	.424306	.465972	11	.000127
12	.258333	.300000	.341667	.383333	.425000	.466667	12	.000139
13	.259028	.300694	.342361	.384028	.425694	.467361	13	.000150
14	.259722	.301389	.343056	.384722	.426389	.468056	14	.000162
15	0.260417	0.302083	0.343750	0.385417	0.427083	0.468750	15	0.000174
16	.261111	.302778	.344444	.386111	.427778	.469444	16	.000185
17	.261806	.303472	.345139	.386806	.428472	.470139	17	.000197
18	.262500	.304167	.345833	.387500	.429167	.470833	18	.000208
19	.263194	.304861	.346528	.388194	.429861	.471528	19	.000220
20	0.263889	0.305556	0.347222	0.388889	0.430556	0.472222	20	0.000231
21	.264583	.306250	.347917	.389583	.431250	.472917	21	.000243
22	.265278	.306944	.348611	.390278	.431944	.473611	22	.000255
23	.265972	.307639	.349306	.390972	.432639	.474306	23	.000266
24	.266667	.308333	.350000	.391667	.433333	.475000	24	.000278
25	0.267361	0.309028	0.350694	0.392361	0.434028	0.475694	25	0.000289
26	.268056	.309722	.351389	.393056	.434722	.476389	26	.000301
27	.268750	.310417	.352083	.393750	.435417	.477083	27	.000313
28	.269444	.311111	.352778	.394444	.436111	.477778	28	.000324
29	.270139	.311806	.353472	.395139	.436806	.478472	29	.000336
30	0.270833	0.312500	0.354167	0.395833	0.437500	0.479167	30	0.000347
31	.271528	.313194	.354861	.396528	.438194	.479861	31	.000359
32	.272222	.313889	.355556	.397222	.438889	.480556	32	.000370
33	.272917	.314583	.356250	.397917	.439583	.481250	33	.000382
34	.273611	.315278	.356944	.398611	.440278	.481944	34	.000394
35	0.274306	0.315972	0.357639	0.399306	0.440972	0.482639	35	0.000405
36	.275000	.316667	.358333	.400000	.441667	.483333	36	.000417
37	.275694	.317361	.359028	.400694	.442361	.484028	37	.000428
38	.276389	.318056	.359722	.401389	.443056	.484722	38	.000440
39	.277083	.318750	.360417	.402083	.443750	.485417	39	.000451
40	0.277778	0.319444	0.361111	0.402778	0.444444	0.486111	40	0.000463
41	.278472	.320139	.361806	.403472	.445139	.486806	41	.000475
42	.279167	.320833	.362500	.404167	.445833	.487500	42	.000486
43	.279861	.321528	.363194	.404861	.446528	.488194	43	.000498
44	.280556	.322222	.363889	.405556	.447222	.488889	44	.000509
45	0.281250	0.322917	0.364583	0.406250	0.447917	0.489583	45	0.000521
46	.281944	.323611	.365278	.406944	.448611	.490278	46	.000532
47	.282639	.324306	.365972	.407639	.449306	.490972	47	.000544
48	.283333	.325000	.366667	.408333	.450000	.491667	48	.000556
49	.284028	.325694	.367361	.409028	.450694	.492361	49	.000567
50	0.284722	0.326389	0.368056	0.409722	0.451389	0.493056	50	0.000579
51	.285417	.327083	.368750	.410417	.452083	.493750	51	.000590
52	.286111	.327778	.369444	.411111	.452778	.494444	52	.000602
53	.286806	.328472	.370139	.411806	.453472	.495139	53	.000613
54	.287500	.329167	.370833	.412500	.454167	.495833	54	.000625
55	0.288194	0.329861	0.371528	0.413194	0.454861	0.496528	55	0.000637
56	.288889	.330556	.372222	.413889	.455556	.497222	56	.000648
57	.289583	.331250	.372917	.414583	.456250	.497917	57	.000660
58	.290278	.331944	.373611	.415278	.456944	.498611	58	.000671
59	.290972	.332639	.374306	.415972	.457639	.499306	59	.000683

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ−☊	Δλ	a	B	λ−☊	λ−☊	Δλ	a	B	λ−☊
°	′		° ′	°	°	′		° ′	°
0	+0.0+	−0.0269+	−0 0.0+	180	45	+0.6+	−0.0190+	−1 5.3+	225
1	0.0	268	0 1.6	181	46	0.6	187	1 6.4	226
2	0.0	268	0 3.2	182	47	0.6	183	1 7.5	227
3	0.1	268	0 4.8	183	48	0.6	180	1 8.6	228
4	0.1	268	0 6.4	184	49	0.6	176	1 9.7	229
5	+0.1+	−0.0268+	−0 8.0+	185	50	+0.6+	−0.0173+	−1 10.7+	230
6	0.1	267	0 9.7	186	51	0.6	169	1 11.8	231
7	0.1	267	0 11.3	187	52	0.6	165	1 12.8	232
8	0.2	266	0 12.9	188	53	0.6	162	1 13.8	233
9	0.2	265	0 14.4	189	54	0.6	158	1 14.7	234
10	+0.2+	−0.0264+	−0 16.0+	190	55	+0.6+	−0.0154+	−1 15.6+	235
11	0.2	264	0 17.6	191	56	0.6	150	1 16.6	236
12	0.2	263	0 19.2	192	57	0.6	146	1 17.4	237
13	0.3	262	0 20.8	193	58	0.6	142	1 18.3	238
14	0.3	261	0 22.3	194	59	0.5	138	1 19.2	239
15	+0.3+	−0.0259+	−0 23.9+	195	60	+0.5+	−0.0134+	−1 20.0+	240
16	0.3	258	0 25.5	196	61	0.5	130	1 20.8	241
17	0.3	257	0 27.0	197	62	0.5	126	1 21.5	242
18	0.4	255	0 28.5	198	63	0.5	122	1 22.3	243
19	0.4	254	0 30.1	199	64	0.5	118	1 23.0	244
20	+0.4+	−0.0252+	−0 31.6+	200	65	+0.5+	−0.0114+	−1 23.7+	245
21	0.4	251	0 33.1	201	66	0.5	109	1 24.4	246
22	0.4	249	0 34.6	202	67	0.4	105	1 25.0	247
23	0.4	247	0 36.1	203	68	0.4	101	1 25.6	248
24	0.5	245	0 37.6	204	69	0.4	096	1 26.2	249
25	+0.5+	−0.0243+	−0 39.0+	205	70	+0.4+	−0.0092+	−1 26.8+	250
26	0.5	241	0 40.5	206	71	0.4	87	1 27.3	251
27	0.5	239	0 41.9	207	72	0.4	83	1 27.8	252
28	0.5	237	0 43.4	208	73	0.3	79	1 28.3	253
29	0.5	235	0 44.8	209	74	0.3	74	1 28.8	254
30	+0.5+	−0.0233+	−0 46.2+	210	75	+0.3+	−0.0070+	−1 29.2+	255
31	0.5	230	0 47.6	211	76	0.3	65	1 29.6	256
32	0.6	228	0 48.9	212	77	0.3	60	1 30.0	257
33	0.6	225	0 50.3	213	78	0.2	56	1 30.3	258
34	0.6	223	0 51.6	214	79	0.2	51	1 30.6	259
35	+0.6+	−0.0220+	−0 53.0+	215	80	+0.2+	−0.0047+	−1 30.9+	260
36	0.6	217	0 54.3	216	81	0.2	42	1 31.2	261
37	0.6	214	0 55.6	217	82	0.2	37	1 31.4	262
38	0.6	212	0 56.9	218	83	0.1	33	1 31.6	263
39	0.6	209	0 58.1	219	84	0.1	28	1 31.8	264
40	+0.6+	−0.0206+	−0 59.4+	220	85	+0.1+	−0.0023+	−1 32.0+	265
41	0.6	203	1 0.6	221	86	0.1	19	1 32.1	266
42	0.6	200	1 1.8	222	87	0.1	14	1 32.2	267
43	0.6	196	1 3.0	223	88	0.0	09	1 32.3	268
44	0.6	193	1 4.1	224	89	0.0	05	1 32.3	269
45	+0.6+	−0.0190+	−1 5.3+	225	90	+0.0+	−0.0000+	−1 32.3+	270

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten (siehe Seite 58)

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ-☊	Δλ	a	B	λ-☊	λ-☊	Δλ	a	B	λ-☊
°	′		° ′	°	°	′		° ′	°
90	—0.0—	+0.0000—	—1 32.3+	270	135	—0.6—	+0.0190—	—1 5.3+	315
91	0.0	05	1 32.3	271	136	0.6	193	1 4.1	316
92	0.0	09	1 32.3	272	137	0.6	196	1 3.0	317
93	0.1	14	1 32.2	273	138	0.6	200	1 1.8	318
94	0.1	19	1 32.1	274	139	0.6	203	1 0.6	319
95	—0.1—	+0.0023—	—1 32.0+	275	140	—0.6—	+0.0206—	—0 59.4+	320
96	0.1	28	1 31.8	276	141	0.6	209	0 58.1	321
97	0.1	33	1 31.6	277	142	0.6	212	0 56.9	322
98	0.2	37	1 31.4	278	143	0.6	214	0 55.6	323
99	0.2	42	1 31.2	279	144	0.6	217	0 54.3	324
100	—0.2—	+0.0047—	—1 30.9+	280	145	—0.6—	+0.0220—	—0 53.0+	325
101	0.2	51	1 30.6	281	146	0.6	223	0 51.6	326
102	0.2	56	1 30.3	282	147	0.6	225	0 50.3	327
103	0.3	60	1 30.0	283	148	0.6	228	0 48.9	328
104	0.3	65	1 29.6	284	149	0.5	230	0 47.6	329
105	—0.3—	+0.0070—	—1 29.2+	285	150	—0.5—	+0.0233—	—0 46.2+	330
106	0.3	74	1 28.8	286	151	0.5	235	0 44.8	331
107	0.3	79	1 28.3	287	152	0.5	237	0 43.4	332
108	0.4	83	1 27.8	288	153	0.5	239	0 41.9	333
109	0.4	87	1 27.3	289	154	0.5	241	0 40.5	334
110	—0.4—	+0.0092—	—1 26.8+	290	155	—0.5—	+0.0243—	—0 39.0+	335
111	0.4	096	1 26.2	291	156	0.5	245	0 37.6	336
112	0.4	101	1 25.6	292	157	0.4	247	0 36.1	337
113	0.4	105	1 25.0	293	158	0.4	249	0 34.6	338
114	0.5	109	1 24.4	294	159	0.4	251	0 33.1	339
115	—0.5—	+0.0114—	—1 23.7+	295	160	—0.4—	+0.0252—	—0 31.6+	340
116	0.5	118	1 23.0	296	161	0.4	254	0 30.1	341
117	0.5	122	1 22.3	297	162	0.4	255	0 28.5	342
118	0.5	126	1 21.5	298	163	0.3	257	0 27.0	343
119	0.5	130	1 20.8	299	164	0.3	258	0 25.5	344
120	—0.5—	+0.0134—	—1 20.0+	300	165	—0.3—	+0.0259—	—0 23.9+	345
121	0.5	138	1 19.2	301	166	0.3	261	0 22.3	346
122	0.6	142	1 18.3	302	167	0.3	262	0 20.8	347
123	0.6	146	1 17.4	303	168	0.2	263	0 19.2	348
124	0.6	150	1 16.6	304	169	0.2	264	0 17.6	349
125	—0.6—	+0.0154—	—1 15.6+	305	170	—0.2—	+0.0264—	—0 16.0+	350
126	0.6	158	1 14.7	306	171	0.2	265	0 14.4	351
127	0.6	162	1 13.8	307	172	0.2	266	0 12.9	352
128	0.6	165	1 12.8	308	173	0.1	267	0 11.3	353
129	0.6	169	1 11.8	309	174	0.1	267	0 9.7	354
130	—0.6—	+0.0173—	—1 10.7+	310	175	—0.1—	+0.0268—	—0 8.0+	355
131	0.6	176	1 9.7	311	176	0.1	268	0 6.4	356
132	0.6	180	1 8.6	312	177	0.1	268	0 4.8	357
133	0.6	183	1 7.5	313	178	0.0	268	0 3.2	358
134	0.6	187	1 6 4	314	179	0.0	268	0 1.6	359
135	—0.6—	+0.0190—	—1 5.3+	315	180	—0.0—	+0.0269—	—0 0.0+	360

$$l' = \lambda + \Delta\lambda - a\,(B - \beta) - L_{☾}\,; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten (siehe Seite 58)

Präzession in Länge p_λ											Präz. in Br. p_β		
Länge λ	Breite β 0°	+1°	+2°	+3°	+4°	+5°	+6°	+7°	+8°	+9°	Länge λ	Präzession p_β	
0°	50.″262	.″254	.″245	.″237	.″229	50.″221	.″213	.″205	.″196	.″188	0°	+0.″048	80
10	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	10	+0.128	77
20	.262	.255	.247	.240	.232	.225	.217	.210	.202	.195	20	+0.205	70
30	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	30	+0.275	63
40	50.262	.256	.251	.245	.239	50.233	.227	.221	.216	.210	40	+0.338	52
50	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	50	+0.390	40
60	.262	.259	.255	.252	.249	.245	.242	.238	.235	.231	60	+0.430	26
70	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	70	+0.456	14
80	50.262	.261	.261	.260	.259	50.259	.258	.258	.257	.257	80	+0.470	— 1
90	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	90	+0.469	16
100	.262	.264	.267	.269	.271	.273	.275	.277	.280	.282	100	+0.453	29
110	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	110	+0.424	42
120	50.262	.267	.271	.276	.281	50.286	.291	.296	.301	.306	120	+0.382	54
130	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	130	+0.328	63
140	.262	.269	.275	.282	.289	.296	.303	.310	.317	.324	140	+0.265	72
150	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	150	+0.193	77
160	50.262	.270	.278	.286	.294	50.302	.310	.318	.326	.334	160	+0.116	81
170	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	170	+0.035	83
180	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	180	—0.048	80
190	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	190	—0.128	77
200	50.262	.269	.277	.284	.292	50.299	.307	.314	.322	.329	200	—0.205	70
210	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	210	—0.275	63
220	.262	.268	.273	.279	.285	.291	.297	.303	.308	.314	220	—0.338	52
230	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	230	—0.390	40
240	50.262	.265	.269	.272	.275	50.279	.282	.286	.289	.293	240	—0.430	26
250	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	250	—0.456	14
260	.262	.263	.263	.264	.265	.265	.266	.266	.267	.267	260	—0.470	1
270	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	270	—0.469	16
280	50.262	.260	.257	.255	.253	50.251	.249	.247	.244	.242	280	—0.453	29
290	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	290	—0.424	42
300	.262	.257	.253	.248	.243	.238	.233	.228	.223	.218	300	—0.382	54
310	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	310	—0.328	63
320	50.262	.255	.249	.242	.235	50.228	.221	.214	.207	.200	320	—0.265	72
330	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	330	—0.193	77
340	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	340	—0.116	81
350	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	350	—0.035	83
360	50.262	.254	.245	.237	.229	50.221	.213	.205	.196	.188	360	+0.048	

Präzession in Länge p_λ											Präz. in Br. p_β		
Länge λ	Breite β 0°	−1°	−2°	−3°	−4°	−5°	−6°	−7°	−8°	−9°	Länge λ	Präzession p_β	
°	″	″	″	″	″	″	″	″	″	″	°	″	
0	50.262	.270	.279	.287	.295	50.303	.311	.319	.328	.336	0	+0.048	80
10	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	10	+0.128	77
20	.262	.269	.277	.284	.292	.299	.307	.314	.322	.329	20	+0.205	70
30	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	30	+0.275	63
40	50.262	.268	.273	.279	.285	50.291	.297	.303	.308	.314	40	+0.338	52
50	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	50	+0.390	40
60	.262	.265	.269	.272	.275	.279	.282	.286	.289	.293	60	+0.430	26
70	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	70	+0.456	14
80	50.262	.263	.263	.264	.265	50.265	.266	.266	.267	.267	80	+0.470	—1
90	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	90	+0.469	16
100	.262	.260	.257	.255	.253	.251	.249	.247	.244	.242	100	+0.453	29
110	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	110	+0.424	42
120	50.262	.257	.253	.248	.243	50.238	.233	.228	.223	.218	120	+0.382	54
130	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	130	+0.328	63
140	.262	.255	.249	.242	.235	.228	.221	.214	.207	.200	140	+0.265	72
150	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	150	+0.193	77
160	50.262	.254	.246	.238	.230	50.222	.214	.206	.198	.190	160	+0.116	81
170	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	170	+0.035	83
180	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	180	−0.048	80
190	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	190	−0.128	77
200	50.262	.255	.247	.240	.232	50.225	.217	.210	.202	.195	200	−0.205	70
210	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	210	−0.275	63
220	.262	.256	.251	.245	.239	.233	.227	.221	.216	.210	220	−0.338	52
230	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	230	−0.390	40
240	50.262	.259	.255	.252	.249	50.245	.242	.238	.235	.231	240	−0.430	26
250	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	250	−0.456	14
260	.262	.261	.261	.260	.259	.259	.258	.258	.257	.257	260	−0.470	—1
270	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	270	−0.469	16
280	50.262	.264	.267	.269	.271	50.273	.275	.277	.280	.282	280	−0.453	29
290	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	290	−0.424	42
300	.262	.267	.271	.276	.281	.286	.291	.296	.301	.306	300	−0.382	54
310	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	310	−0.328	63
320	50.262	.269	.275	.282	.289	50.296	.303	.310	.317	.324	320	−0.265	72
330	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	330	−0.193	77
340	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	340	−0.116	81
350	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	350	−0.035	83
360	50.262	.270	.279	.287	.295	50.303	.311	.319	.328	.336	360	+0.048	

Präzession in Rektaszension (p_α) und Deklination (p_δ)

	p_α													p_δ
α \ δ	+60°	+50°	+40°	+30°	+20°	+10°	0°	−10°	−20°	−30°	−40°	−50°	−60°	
h	s	s	s	s	s	s	s	s	s	s	s	s	s	″
0	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0
1	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	+19.4
2	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	+17.4
3	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	+14.2
4	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	+10.0
5	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	+ 5.2
6	5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76	0.0
7	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	− 5.2
8	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	−10.0
9	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	−14.2
10	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	−17.4
11	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	−19.4
12	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	−20.0
13	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	−19.4
14	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	−17.4
15	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	−14.2
16	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	−10.0
17	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	− 5.2
18	0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39	0.0
19	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	+ 5.2
20	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	+10.0
21	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	+14.2
22	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	+17.4
23	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	+19.4
24	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0

Präzessionswerte und Schiefe der Ekliptik

Zeit	m	n	ψ	log π	Π	ε
	s	″	″		° ′	° ′ ″
1900.0	3.07233	20.0468	50.2564	9.67309	173 57.06	23 27 8.26
1905.0	3.07243	20.0464	50.2575	9.67305	173 59.80	23 27 5.92
1910.0	3.07252	20.0460	50.2586	9.67302	174 2.53	23 27 3.58
1915.0	3.07261	20.0456	50.2597	9.67299	174 5.27	23 27 1.23
1920.0	3.07271	20.0451	50.2608	9.67296	174 8.01	23 26 58.89
1925.0	3.07280	20.0447	50.2620	9.67293	174 10.75	23 26 56.55
1930.0	3.07289	20.0443	50.2631	9.67290	174 13.49	23 26 54.21

Hilfsgrößen

zur Berechnung der geozentrischen Koordinaten

$\rho \sin \varphi' = s \sin \varphi ; \qquad \rho \cos \varphi' = c \cos \varphi$

φ	log *s*		log *c*		φ	log *s*		log *c*	
±0°	9.9970705	4	0.0000000	4	±40°	9.9976745	252	0.0006040	252
1	.9970709	14	.0000004	14	41	.9976997	254	.0006292	254
2	.9970723	22	.0000018	22	42	.9977251	255	.0006546	255
3	.9970745	31	.0000040	31	43	.9977506	255	.0006801	255
4	.9970776	40	.0000071	40	44	.9977761	255	.0007056	255
5	9.9970816	49	0.0000111	49	45	9.9978016	256	0.0007311	256
6	.9970865	57	.0000160	57	46	.9978272	255	.0007567	255
7	.9970922	66	.0000217	66	47	.9978527	255	.0007822	255
8	.9970988	74	.0000283	74	48	.9978782	254	.0008077	254
9	.9971062	83	.0000357	83	49	.9979036	252	.0008331	252
10	9.9971145	92	0.0000440	92	50	9.9979288	252	0.0008583	252
11	.9971237	99	.0000532	99	51	.9979540	249	.0008835	249
12	.9971336	108	.0000631	108	52	.9979789	247	.0009084	247
13	.9971444	116	.0000739	116	53	.9980036	245	.0009331	245
14	.9971560	123	.0000855	123	54	.9980281	242	.0009576	242
15	9.9971683	131	0.0000978	131	55	9.9980523	239	0.0009818	239
16	.9971814	139	.0001109	139	56	.9980762	235	.0010057	235
17	.9971953	146	.0001248	146	57	.9980997	232	.0010292	232
18	.9972099	154	.0001394	154	58	.9981229	228	.0010524	228
19	.9972253	160	.0001548	160	59	.9981457	224	.0010752	224
20	9.9972413	168	0.0001708	168	60	9.9981681	220	0.0010976	220
21	.9972581	174	.0001876	174	61	.9981901	215	.0011196	215
22	.9972755	180	.0002050	180	62	.9982116	209	.0011411	209
23	.9972935	187	.0002230	187	63	.9982325	205	.0011620	205
24	.9973122	192	.0002417	192	64	.9982530	199	.0011825	199
25	9.9973314	198	0.0002609	198	65	9.9982729	193	0.0012024	193
26	.9973512	204	.0002807	204	66	.9982922	188	.0012217	188
27	.9973716	209	.0003011	209	67	.9983110	181	.0012405	181
28	.9973925	214	.0003220	214	68	.9983291	175	.0012586	175
29	.9974139	219	.0003434	219	69	.9983466	168	.0012761	168
30	9.9974358	223	0.0003653	223	70	9.9983634	161	0.0012929	161
31	.9974581	227	.0003876	227	71	.9983795	154	.0013090	154
32	.9974808	232	.0004103	232	72	.9983949	147	.0013244	147
33	.9975040	235	.0004335	235	73	.9984096	140	.0013391	140
34	.9975275	238	.0004570	238	74	.9984236	132	.0013531	132
35	9.9975513	241	0.0004808	241	75	9.9984368	124	0.0013663	124
36	.9975754	245	.0005049	245	76	.9984492	117	.0013787	117
37	.9975999	246	.0005294	246	77	.9984609	108	.0013904	108
38	.9976245	249	.0005540	249	78	.9984717	100	.0014012	100
39	.9976494	251	.0005789	251	79	.9984817	92	.0014112	92
40	9.9976745		0.0006040		80	9.9984909		0.0014204	

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Abbadia	69	+43 22 52.2	+0 7 0.1	+ 1.15	+43 11 17.8	9.999317
Åbo	—	+60 26 56.8	−1 29 6.30	−14.64	+60 16 58.8	9.998894
Adelaide	43	−34 55 38.5	−9 14 20.42	−91.06	−34 44 46.1	9.999526
Albany (N. Stw.)[1]	40	+42 39 12.6	+4 55 6.36	+48.48	+42 27 39.5	9.999334
Alfred Centre N.Y.	556	+42 15 19.8	+5 11 7.13	+51.11	+42 3 47.6	9.999379
Algier (N. Stw.)[2]	342	+36 47 50	−0 12 8.38	− 1.99	+36 36 43	9.999501
Allegheny (N. Stw.)	370	+40 28 58.1	+5 20 5.39	+52.59	+40 17 31.4	9.999411
Allegheny (A. Stw.)	349	+40 27 41.6	+5 20 2.97	+52.58	+40 16 15.0	9.999411
Altenburg[3]	229	+50 58 20	−0 49 44.16	− 8.17	+50 46 59	9.999135
Altona Mer.-Kreis[4]	31	+53 32 45.3	−0 39 46.19	− 6.53	+53 21 39.7	9.999058
Amherst (Neue Stw.)	110	+42 21 56.5	+4 50 5.98	+47.66	+42 10 24.0	9.999346
Amherst (Alte Stw.)	122	+42 22 17.1	+4 50 4.72	+47.66	+42 10 44.6	9.999347
Annapolis	—	+38 58 53.5	+5 5 56.53	+50.26	+38 47 33.6	9.999424
Ann Arbor	285	+42 16 48.0	+5 34 55.23	+55.02	+42 5 15.7	9.999360
Arcetri Zentr. d. St.[5]	186	+43 45 14.4	−0 45 1.30	− 7.39	+43 33 39.5	9.999316
Arequipa	2451	−16 22 28.0	+4 46 11.73	+47.02	−16 16 12.7	0.000052
Armagh	61	+54 21 12.7	+0 26 35.4	+ 4.37	+54 10 13.1	9.999041
Athen	107	+37 58 19.7	−1 34 52.92	−15.58	+37 47 5.4	9.999456
Bamberg (Remeis' St.)	299	+49 53 6.0	−0 43 33.57	− 7.15	+49 41 40.0	9.999167
Barcelona[6]	420	+41 24 2	−0 8 35.1	− 1.41	+41 12 32	9.999392
Beloit	—	+42 30 9	+5 56 7.4	+58.51	+42 18 36	9.999335
Bergedorf Mer.-Kr.	35	+53 28 46.7	−0 40 57.74	− 6.73	+53 17 40.6	9.999060
Bergen	—	+60 23 54	−0 21 12.73	− 3.48	+60 13 55	9.998895
Berkeley	97	+37 52 23.6	+8 9 2.82	+80.34	+37 41 9.9	9.999458
Berlin-Babelsberg[7]	80	+52 24 24.2	−0 52 25.49	− 8.61	+52 13 11.1	9.999089
Berlin (Urania)	—	+52 31 30.7	−0 53 27.40	− 8.78	+52 20 18.3	9.999081
Bern	573	+46 57 8.7	−0 29 45.55	− 4.89	+46 45 34.5	9.999261
Besançon	312	+47 14 59.0	−0 23 57.1	− 3.93	+47 3 25.3	9.999236
Bethlehem[8]	—	+40 36 23.5	+5 1 31.94	+49.54	+40 24 56.3	9.999383
Birr Castle[9]	56	+53 5 47	+0 31 40.9	+ 5.20	+52 54 38	9.999070
Bogota	2700	+ 4 35 48	+4 56 59	+48.79	+ 4 33 57	0.000175
Bologna Zentr. d. Stw.	84	+44 29 52.8	−0 45 24.48	− 7.46	+44 18 17.3	9.999290
Bombay (Colaba)	19	+18 53 36.2	−4 51 15.70	−47.85	+18 46 31.1	9.999849
Bonn Zentr. d. Stw.	62	+50 43 45.0	−0 28 23.18	− 4.66	+50 32 22.7	9.999130
Bordeaux (Floirac)	73	+44 50 7.2	+0 2 5.50	+ 0.34	+44 38 31.6	9.999281
Boston (University)	—	+42 21 32.5	+4 44 15.0	+46.70	+42 10 0.0	9.999339

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37″.0 nördlich, $7^s.10$ östlich. — [2]) Alte Sternwarte 3′.8 südlich, 8^s östlich. — [3]) Fr. Krüger. — [4]) 1873 nach Kiel verlegt. — [5]) Seit Oktober 1872, früher in Florenz. — [6]) J. Comas Solá. — [7]) Die Koordinaten beziehen sich auf die Mitte der großen Kuppel, in der der große Refraktor aufgestellt ist. Die frühere Sternwarte in Berlin (seit 1835) lag 5′ 52″.5 nördlich und $1^m\ 9^s.31$ östlich. — [8]) Sayre Observatory, auch South-Bethlehem. — [9]) Earl of Rosse.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Bothkamp[1]	32	+54 12 9.6	− 0 40 31.2	− 6.65	+54 1 8.8	9.999042
Bremen (Olbers' Stw.) .	—	+53 4 36	− 0 35 15	− 5.79	+52 53 27	9.999067
Breslau Zentr. d. Stw. .	147	+51 6 56.5	− 1 8 8.72	− 11.19	+50 55 36.1	9.999126
Breteuil Zentr.[2] . .	66	+48 49 48	− 0 8 52.9	− 1.46	+48 38 18	9.999178
Brisbane	—	−27 28 0	−10 12 6.4	−100.55	−27 18 32	9.999691
Brüssel (Alte St.) Pass.Instr.	56	+50 51 10.7	− 0 17 28.71	− 2.87	+50 39 49.0	9.999126
Brüssel (Uccle) Mer.-Kreis	102	+50 47 55.5	− 0 17 26.06	− 2.86	+50 36 33.6	9.999131
Budapest[3]	110	+47 28 49	− 1 16 13.7	− 12.53	+47 17 16	9.999215
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	− 1 44 27.01	− 17.16	+44 12 58.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	− 0 0 22.75	− 0.06	+52 1 37.3	9.999090
Cambridge Mass.[4] .	24	+42 22 47.6	+ 4 44 31.02	+ 46.74	+42 11 15.1	9.999340
Cap d. gut. Hoffnung	16	−33 56 3.2	− 1 13 54.74	− 12.14	−33 45 19.6	9.999548
Catania	60	+37 30 13.3	− 1 0 20.6	− 9.91	+37 19 1.9	9.999465
Chapultepec (Alte Stw.)[5]	—	+19 25 17.5	+ 6 36 38.28	+ 65.16	+19 18 2.3	9.999840
Charkow	138	+50 0 10.2	− 2 24 54.6	− 23.81	+49 48 44.7	9.999153
Charlottenburg, Techn. Hochsch.	60	+52 30 48.7	− 0 53 20.5	− 8.76	+52 19 36.2	9.999085
Charlottesville[6] . .	250	+38 2 1.2	+ 5 14 5.26	+ 51.60	+37 50 46.5	9.999464
Chicago (Alte Stw.)[7] .	—	+41 50 1.0	+ 5 50 26.82	+ 57.57	+41 38 29.8	9.999352
Christiania Mer.-Kreis .	25	+59 54 43.7	− 0 42 53.51	− 7.04	+59 44 39.2	9.998908
Cincinnati (Alte Stw.) .	—	+39 6 26.5	+ 5 37 59.09	+ 55.52	+38 55 6.0	9.999421
Cincinnati (Neue Stw.)[8]	263	+39 8 19.8	+ 5 37 41.33	+ 55.47	+38 56 59.1	9.999438
Cleveland (Case Obs.) .	212	+41 30 14.5	+ 5 26 25.86	+ 53.63	+41 18 44.3	9.999375
Clinton (Litchfield Obs.)	276	+43 3 16.5	+ 5 1 37.48	+ 49.55	+42 51 42.6	9.999340
Coimbra	99	+40 12 24.5	+ 0 33 43.1	+ 5.54	+40 0 58.9	9.999400
Columbia Missouri[9] .	225	+38 56 51.7	+ 6 9 18.37	+ 60.67	+38 45 32.0	9.999440
Cordoba	439	−31 25 15.5	+ 4 16 48.2	+ 42.19	−31 14 57.5	9.999635
Danzig	3	+54 21 18.0	− 1 14 39.5	− 12.26	+54 10 18.4	9.999036
Denver[10]	1650	+39 40 36.4	+ 6 59 47.67	+ 68.96	+39 29 13.1	9.999519
Dorpat Mer.-Kreis . .	73	+58 22 47.1	− 1 46 53.23	− 17.56	+58 12 25.0	9.998946
Dresden (Neue Stw.)[11].	121	+51 2 16.8	− 0 54 54.74	− 9.02	+50 50 56.1	9.999126
Dresden (Mathem. Salon)	—	+51 3 14.7	− 0 54 55.83	− 9.02	+50 51 54.0	9.999117
Dublin (Dunsink Obs.) .	86	+53 23 13.1	+ 0 25 21.1	+ 4.17	+53 12 6.4	9.999065
Düsseldorf (Bilk) . . .	46	+51 12 25.0	− 0 27 2.69	− 4.44	+51 1 5.1	9.999117
Dunecht[12]	141	+57 9 36	+ 0 9 40	+ 1.59	+56 59 1	9.998979
Durham	107	+54 46 6.2	+ 0 6 19.7	+ 1.04	+54 35 9.8	9.999033
Edinburg	106	+55 57 23.2	+ 0 12 43.05	+ 2.09	+55 46 37.0	9.999005

[1]) Herr von Bülow. — [2]) Bureau international des Poids et Mesures. — [3]) Observ. der Kgl. ungar. Universität. — [4]) Harvard College Observatory. — [5]) 1883 nach Tacubaya verlegt. — [6]) Leander Mc. Cormick Obs. der University of Virginia. — [7]) 1887 geschlossen. — [8]) Mount Lookout, seit 1873. — [9]) Laws Observatory. — [10]) University Park, Chamberlin Observatory. — [11]) v. Engelhardt; Herbst 1897 aufgelöst. Alte Sternwarte 14″.2 nördlich, 1s.57 westlich. — [12]) Earl of Crawford.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ' "	h m s	s	° ' "	
Edinburg (Blackf. Hill)	134	+55 55 28.0	+0 12 44.0	+ 2.09	+55 44 41.5	9.999007
Evanston (Dearborn Obs.)	175	+42 3 33.4	+5 50 42.3	+57.61	+41 52 1.6	9.999358
Flagstaff (Lowell Obs.)	2210	+35 12 30.5	+7 26 44.6	+73.39	+35 1 35.8	9.999667
Florenz (Alte Sternw.)[1]	73	+43 46 4.1	−0 45 1.30	− 7.40	+43 34 29.2	9.999308
Florenz (Mil. Geogr. Inst.)	—	+43 46 49.3	−0 45 2.52	− 7.40	+43 35 14.4	9.999303
Frankfurt a. M.	121	+50 7 0	−0 34 36.3	− 5.70	+49 55 35	9.999149
Genf Mer.-Kreis	407	+46 11 59.1	−0 24 36.61	− 4.04	+46 0 23.9	9.999269
Genua (Mar. Stw.) Mer.-Kr.	105	+44 25 9.3	−0 35 41.28	− 5.86	+44 13 33.8	9.999293
Georgetown D. C.	46	+38 54 26.2	+5 8 18.33	+50.65	+38 43 6.7	9.999429
Glasgow Schottl.	55	+55 52 42.6	+0 17 10.55	+ 2.82	+55 41 55.7	9.999003
Glasgow Missouri	228	+39 13 45.6	+6 11 18.06	+61.00	+39 2 24.5	9.999433
Göttingen Mer.-Kreis	161	+51 31 48.2	−0 39 46.22	− 6.53	+51 20 30.0	9.999117
Gohlis[2]	108	+51 21 35.0	−0 49 29.54	− 8.13	+51 10 15.9	9.999117
Gotha (Neue Stw.) Zentr. d. St.[3]	320	+50 56 37.5	−0 42 50.52	− 7.04	+50 45 16.3	9.999142
Graz	375	+47 4 37.2	−1 1 48	−10.15	+46 53 3.2	9.999244
Greenwich Transit Circle	47	+51 28 38.1	0 0 0.00	0.00	+51 17 19.6	9.999110
Grignon	—	+47 33 42	−0 17 38	− 2.89	+47 22 9	9.999206
Groningen	4	+53 13 19.1	−0 26 15.2	− 4.31	+53 2 11.3	9.999064
Hamburg (Alt. Stw.) M.-Kr.[4]	25	+53 33 6.0	−0 39 53.60	− 6.55	+53 22 0.4	9.999057
Hamburg (D. Seewarte)	30	+53 32 51.8	−0 39 53.42	− 6.55	+53 21 46.2	9.999058
Hanover N. H.	183	+43 42 15.2	+4 49 8.00	+47.50	+43 30 40.4	9.999317
Harrow (Col. Tupmann)	66	+51 34 47.4	+0 1 19.9	+ 0.39	+51 23 29.5	9.999109
Hastings on Huds.[5]	—	+40 59 25	+4 55 29.7	+48.55	+40 47 56	9.999373
Haverford	—	+40 0 36.5	+5 1 12.79	+49.48	+39 49 11.8	9.999398
Heidelberg (Wolfs Stw.)	—	+49 24 35	−0 34 48.4	− 5.72	+49 13 7	9.999159
Heidelberg (Königst.) M.-Kr.	570	+49 23 54.6	−0 34 53.13	− 5.73	+49 12 26.8	9.999198
St. Helena	210	−15 55 26	+0 22 52.2	+ 3.76	−15 49 20	9.999905
Helsingfors Mer.-Kreis	38	+60 9 42.6	−1 39 49.10	−16.40	+59 59 41.1	9.998903
Helwan	119	+29 51 33	−2 5 22	−20.59	+29 41 33	9.999648
Herény (von Gothard)	229	+47 15 47.4	−1 6 24.6	−10.91	+47 4 13.7	9.999229
Hongkong	34	+22 18 13.2	−7 36 41.9	−75.02	+22 10 5.8	9.999793
Hudson	—	+41 14 42.6	+5 25 44.19	+53.51	+41 3 13.2	9.999367
Ipswich (Orwell Park)[6]	—	+52 0 33	−0 4 55.8	− 0.81	+51 49 17	9.999094
Jena (Univers.) Zentr. d. St.	156	+50 55 35.6	−0 46 20.22	− 7.61	+50 44 14.3	9.999131
Jena (Winkler)	174	+50 56 15.7	−0 46 20.73	− 7.61	+50 44 54.5	9.999132
Johannesburg	1806	−26 10 55.0	−1 52 18.00	−18.45	−26 1 45.2	9.999840

[1]) 1872 nach Arcetri verlegt. — [2]) Winkler, August 1887 nach Jena verlegt. — [3]) Seit 1857, früher Seeberg. — [4]) 1909 nach Bergedorf verlegt. — [5]) Dr. Draper. — [6]) Col. Tomline.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Kairo	—	+30 4 38.2	−2 5 8.80	−20.56	+29 54 35.8	9.999635
Kalocsa [1])	110	+46 31 42	−1 15 54.2	−12.47	+46 20 7	9.999240
Karlsruhe [2])	110	+49 0 29.6	−0 33 35.40	− 5.52	+48 49 0.4	9.999177
Kasan (Univers.)	79	+55 47 24.3	−3 16 28.93	−32.28	+55 36 36.6	9.999007
Kasan (Engelhardt) . . .	98	+55 50 20.0	−3 15 16.4	−32.08	+55 39 32.7	9.999007
Kew	10	+51 28 6	+0 1 15.1	+ 0.21	+51 16 47	9.999108
Kiel Neuer Mer.-Kreis . .	52	+54 20 27.6	−0 40 35.45	− 6.67	+54 9 27.9	9.999040
Kiel Alter Mer.-Kreis . .	47	+54 20 28.5	−0 40 35.57	− 6.67	+54 9 28.8	9.999040
Kiew Mer.-Kreis	179	+50 27 12.5	−2 2 0.57	−20.04	+50 15 49.0	9.999145
Kis Kartal [3])	—	+47 41 54.8	−1 18 11.6	−12.84	+47 30 22.0	9.999202
Königsberg Reps. M.-Kr. [4])	22	+54 42 50.6	−1 21 58.98	−13.47	+54 31 53.8	9.999029
Kopenhagen (Neue Stw.) [5])	14	+55 41 12.6	−0 50 18.69	− 8.26	+55 30 24.0	9.999005
Kopenhagen (Urania St.)	10	+55 41 19.2	−0 50 9.11	− 8.24	+55 30 30.6	9.999005
Krakau Mer.-Kreis . . .	221	+50 3 51.9	−1 19 50.28	−13.11	+49 52 26.7	9.999158
Kremsmünster Mer.-Kr.	384	+48 3 23.1	−0 56 31.58	− 9.28	+47 51 51.1	9.999219
Landstuhl (Fauth) . . .	385	+49 24 42.5	−0 30 16.35	− 4.97	+49 13 14.7	9.999185
La Plata	12	−34 54 30	+3 51 37.1	+38.05	−34 43 38	9.999524
Leiden (Neue Stw.) Mer.-Kr. [6])	6	+52 9 20.2	−0 17 56.15	− 2.94	+51 58 5.6	9.999090
Leipzig (Neue Stw.) Zentr. [7])	119	+51 20 5.9	−0 49 33.93	− 8.14	+51 8 46.7	9.999119
Lemberg	338	+49 50 11	−1 36 4	−15.78	+49 38 45	9.999171
Leyton [8])	—	+51 34 34.0	+0 0 0.9	0.00	+51 23 16.1	9.999105
Lissabon (Tupada) . .	94	+38 42 30.5	+0 36 44.78	+ 6.04	+38 31 12.0	9.999437
Lissabon (Mar. Stw.) . .	—	+38 42 17.6	+0 36 33.6	+ 6.01	+38 30 59.2	9.999431
Liverpool (Neue Stw.) [9])	61	+53 24 3.8	+0 12 17.2	+ 2.02	+53 12 57.2	9.999063
London [10])	—	+51 31 30	+0 0 37.1	+ 0.10	+51 20 12	9.999106
Lourenço Marques .	59	−25 58 4.9	−2 10 22.63	−21.42	−25 48 58.3	9.999725
Lübeck (Navig.-Sch.) .	19	+53 51 31.1	−0 42 45.6	− 7.02	+53 40 27.8	9.999049
Lund Zentr. d. Stw. . .	34	+55 41 52.0	−0 52 44.97	− 8.66	+55 31 3.5	9.999006
Lussinpiccolo [11]) . . .	42	+44 32 11	−0 57 52.3	− 9.50	+44 20 35	9.999286
Lüttich Ougrée . . .	128	+50 37 6	−0 22 12	− 3.65	+50 25 43	9.999137
Lyon	299	+45 41 40.8	−0 19 8.0	− 3.14	+45 30 5.3	9.999274
Madison (Washburn Obs.)	293	+43 4 36.7	+5 57 37.90	+58.75	+42 53 2.8	9.999340
Madras	7	+13 4 8.1	−5 20 59.33	−52.73	+12 59 2.6	9.999926
Madrid Zentr. d. Stw. . .	655	+40 24 29.7	+0 14 45.09	+ 2.43	+40 13 3.3	9.999433
Mailand Gr. Turm . . .	120	+45 27 59.4	−0 36 45.89	− 6.04	+45 16 23.8	9.999268
Manila	3	+14 35 25	−8 3 50	−79.48	+14 29 47	9.999908

[1]) Erzbischöfl. Haynaldsche Sternwarte. — [2]) 1896 nach Heidelberg verlegt. — [3]) Baron von Podmaniczky. — [4]) Nach 1898, vor 1898 0s.01 westlich. — [5]) Seit 1861 Nov. 11. Alte Sternwarte 20″.3 südlich, 0s.03 westlich. — [6]) Seit 1860. Alte Sternwarte 8″.0 nördlich, 0s.42 östlich. — [7]) Seit 1861. Alte Sternwarte 14″.2 nördlich, 4s.00 westlich. — [8]) J. Gurney Barclay. — [9]) Alte Sternwarte 44″.0 nördlich, 17s.1 östlich. [10]) Regents Park, G. Bishop 1836—61. — [11]) Manora-Sternwarte.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Mannheim Zentr. d. Stw.	98	+49 29 11.0	−0 33 50.42	− 5.56	+49 17 43.5	9.999164
Marburg	248	+50 48 46.9	−0 35 4.9	− 5.76	+50 37 25.0	9.999141
Mare Island Calif.	18	+38 5 55.8	+8 9 5.59	+80.35	+37 54 40.8	9.999447
Markree (Col. Cooper)	45	+54 10 31.7	+0 33 48.4	+ 5.56	+53 59 30.7	9.999043
Marseille (N. St.) M.-Kr.[1]	75	+43 18 19.1	−0 21 34.56	− 3.54	+43 6 44.8	9.999320
Melbourne	28	−37 49 53.1	−9 39 54.17	−95.26	−37 38 39.6	9.999454
Meudon	162	+48 48 18	−0 8 55.5	− 1.46	+48 36 48	9.999185
Mexico	2277	+19 26 1.3	+6 36 26.71	+65.13	+19 18 45.9	9.999995
Middletown Conn.	—	+41 33 16.0	+4 50 37.2	+47.74	+41 21 45.7	9.999359
Modena	63	+44 38 52.8	−0 43 42.8	− 7.18	+44 27 17.2	9.999285
Moncalieri	—	+44 59 51	−0 30 49	− 5.06	+44 48 15	9.999272
Montreal	20	+45 30 17.0	+4 54 18.65	+48.35	+45 18 41.4	9.999260
Mt. Hamilton (Lick) Mkr.	1283	+37 20 25.6	+8 6 34.85	+79.94	+37 9 15.2	9.999552
Mt. Wilson Calif.	1731	+34 12 59.5	+7 52 14.33	+77.47	+34 2 13.3	9.999658
Moskau Mer.-Kr.	142	+55 45 19.5	−2 30 17.03	−24.69	+55 34 31.5	9.999012
Mundenheim[2]	—	+49 27 30	−0 33 44	− 5.54	+49 16 2	9.999158
München West-Kuppel	529	+48 8 45.5	−0 46 26.02	− 7.63	+47 57 13.8	9.999227
Nashville (Vanderbilt Obs.)	—	+36 8 58.2	+5 47 12.81	+57.04	+35 57 56.1	9.999494
Natal	79	−29 50 46.6	−2 4 1.18	−20.37	−29 40 47.0	9.999645
Neapel (Capo di M.)	164	+40 51 45.4	−0 57 1.6	− 9.37	+40 40 17.3	9.999388
Neuchâtel	488	+46 59 50.6	−0 27 49.75	− 4.57	+46 48 16.5	9.999254
New Haven (Neue Stw.)[3]	40	+41 19 22.3	+4 51 40.53	+47.92	+41 7 52.7	9.999368
New York (Rutherfurd)	—	+40 43 48.5	+4 55 56.66	+48.62	+40 32 20.9	9.999380
New York (Columb. C.)	—	+40 45 23.1	+4 55 53.73	+48.61	+40 33 55.4	9.999379
Nikolajew	55	+46 58 22.1	−2 7 53.76	−21.01	+46 46 47.9	9.999225
Nizza Kl. Mer.-Kr.[4]	378	+43 43 16.9	−0 29 12.15	− 4.79	+43 31 42.0	9.999330
Northfield (Goodsell Obs.)	286	+44 27 41.6	+6 12 36.0	+61.21	+44 16 6.1	9.999305
Oakland Californ.[5]	11	+37 48 5	+8 9 6.3	+80.35	+37 36 52	9.999454
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	−2 3 2.05	−20.21	+46 17 1.3	9.999237
Odessa (Filiale Pulkowa)	—	+46 28 36.0	−2 3 2.19	−20.21	+46 17 1.1	9.999234
Ogden Utah	—	+41 13 8.6	+7 27 59.65	+73.60	+41 1 39.3	9.999368
O-Gyalla Astroph. Obs.[6]	113	+47 52 27.3	−1 12 45.49	−11.95	+47 40 54.9	9.999206
Olmütz[7]	—	+49 35 43	−1 9 8	−11.35	+49 24 16	9.999154
Ottawa	84	+45 23 37.3	+5 2 51.93	+49.75	+45 12 1.7	9.999267
Oxford (Radcl. Obs.)	65	+51 45 35.4	+0 5 2.6	+ 0.83	+51 34 18.5	9.999104
Oxford (Univers.)	64	+51 45 34.2	+0 5 0.4	+ 0.82	+51 34 17.3	9.999104

[1]) Seit 1866. Alte Sternwarte 30″.1 südlich, $6^s.2$ westlich; 29^m. — [2]) Dr. Max Mündler. — [3]) Yale University. Alte Sternwarte 45″.8 südlich, $1^s.58$ westlich. — [4]) Herr R. Bischofsheim. — [5]) Chabot Observatory. — [6]) Stiftung von Konkoly. — [7]) Herr von Unkrechtsberg.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Oxford Mississippi .	—	+34 22 12.6	+ 5 58 7.1	+58.83	+34 11 25.1	9.999536
Padua Mauer-Quadr. . .	31	+45 24 1.0	— 0 47 29.15	— 7.80	+45 12 25.4	9.999263
Palermo	76	+38 6 44.0	— 0 53 25.80	— 8.78	+37 55 28.9	9.999451
Paramatta	—	—33 48 49.8	—10 4 0.2	—99.22	—33 38 7.3	9.999550
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	— 0 9 20.94	— 1.53	+48 38 41.5	9.999177
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	— 0 9 20.70	— 1.53	+48 37 48.2	9.999174
Parma (Univ.-Stw.) Turm.	—	+44 48 4.7	— 0 41 18.79	— 6.39	+44 36 29.1	9.999277
Perth West.-Austr. . .	60	—31 57 9.6	— 7 43 21.74	—76.12	—31 46 45.8	9.999597
Petersburg (Akademie)	20	+59 56 29.7	— 2 1 13.35	—19.91	+59 46 25.5	9.998907
Petersburg (Univers.) .	4	+59 56 32.0	— 2 1 11.3	—19.91	+59 46 27.8	9.998906
Philadelphia (Alte Stw.)	—	+39 57 7.5	+ 5 0 38.49	+49.39	+39 45 43.0	9.999400
Philadelphia[1]) . . .	74	+39 58 2.1	+ 5 1 6.6	+49.47	+39 46 37.5	9.999404
Plonsk[2])	—	+52 37 40.0	— 1 21 31.9	—13.39	+52 26 28.2	9.999078
Pola	32	+44 51 48.6	— 0 55 22.96	— 9.10	+44 40 12.9	9.999277
Porto Alegre[3]) Mer.-Kr.	—	—30 1 51	+ 3 24 53.2	+33.66	—29 51 49	9.999636
Portsmouth	—	+50 48 3	+ 0 4 24.8	+ 0.73	+50 36 41	9.999124
Potsdam (Astrophys. Obs.)	97	+52 22 56.0	— 0 52 15.86	— 8.58	+52 11 42.7	9.999091
Potsdam (Geod. Inst.) Turm	97	+52 22 54.8	— 0 52 16.12	— 8.58	+52 11 41.5	9.999091
Poughkeepsie[4]) . . .	46	+41 41 18	+ 4 55 33.6	+48.56	+41 29 47	9.999359
Prag (Univ.-Stw.) Turm .	197	+50 5 16.0	— 0 57 40.29	— 9.47	+49 53 50.9	9.999155
Prag (Safarik)	—	+50 4 24	— 0 57 48	— 9.49	+49 52 59	9.999142
Princeton N. J. (N. Stw.)[5])	76	+40 20 55.8	+ 4 58 39.53	+49.06	+40 9 29.7	9.999395
Providence[6])	64	+41 49 46.4	+ 4 45 37.62	+46.92	+41 38 15.2	9.999356
Pulkowa Zentr. d. Stw.	75	+59 46 18.7	— 2 1 18.58	—19.93	+59 36 12.5	9.998914
Quebec Canada . . .	94	+46 48 17.3	+ 4 44 49.4	+46.79	+46 36 42.9	9.999232
Quito	2846	— 0 14 0	+ 5 15 20	+51.80	— 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	— 1 36 28.11	—15.84	+56 46 30	9.998974
Rio de Janeiro . . .	63	—22 54 23.7	+ 2 52 41.52	+28.37	—22 46 6.0	9.999784
Rochester (Lewis Swift)	172	+43 9 16.8	+ 5 10 21.87	+50.98	+42 57 42.7	9.999330
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	— 0 49 55.36	— 8.19	+41 42 22.3	9.999354
Rom (Capitol) Mer.-Kr.	63	+41 53 33.5	— 0 49 56.34	— 8.20	+41 42 2.2	9.999355
Rom (Vatican) Mer.-Kr.	100	+41 54 16.8	— 0 49 49.28	— 8.18	+41 42 45.5	9.999357
Rousdon	157	+50 42 38	+ 0 11 58.9	+ 1.96	+50 31 16	9.999137
Rugby	117	+52 22 7	+ 0 5 2.0	+ 0.83	+52 10 54	9.999093
St. Louis Missouri . .	—	+38 38 3.6	+ 6 0 49.15	+59.28	+38 26 45.5	9.999433
San Fernando . . .	31	+36 27 40.4	+ 0 24 49.37	+ 4.08	+36 16 36.1	9.999488

[1]) Flower Obs. (Univ. of Pennsylvania). — [2]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — [3]) Observatorio Regional do Rio Grande do Sul. — [4]) Vassar College. — [5]) Alte Sternwarte 2″.0 nördlich, 1s.94 östlich; 65m. — [6]) Seagrave; Ladd Observatory 35″ nördlich, 1s.57 östlich.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
San Francisco[1]) . . .	—	+37 47 28.0	+ 8 9 42.81	+80.45	+37 36 14.8	9.999453
Santiago de Chile (N. St.)	519	−33 26 42.0	+ 4 42 46.4	+46.44	−33 16 3.0	9.999594
Santiago de Chile (A. St.)	619	−33 26 25.4	+ 4 42 36.9	+46.42	−33 15 46.4	9.999600
Scarborough	—	+54 16 30	+ 0 1 38.9	+ 0.27	+54 5 30	9.999038
Schwerin	—	+53 37 37.9	— 0 45 40.80	— 7.50	+53 26 32.9	9.999054
Seeberg[2])	356	+50 56 5.2	— 0 42 55.10	— 7.05	+50 44 44.0	9.999145
Sétif	1113	+36 11 19	— 0 21 38.3	— 3.55	+36 0 17	9.999569
South Hadley	76	+42 15 18.2	+ 4 50 20.38	+47.70	+42 3 45.9	9.999346
Speyer	—	+49 18 55.2	— 0 33 45.51	— 5.54	+49 7 27.1	9.999161
Stockholm Mer.-Kreis .	44	+59 20 32.7	— 1 12 13.97	—11.86	+59 10 21.4	9.998922
Stonyhurst.	116	+53 50 40.0	+ 0 9 52.7	+ 1.62	+53 39 36.5	9.999056
Straßburg (Prov. Stw.) .	161	+48 34 54.0	— 0 31 2.37	— 5.10	+48 23 23.5	9.999191
Straßburg (N.St.). M.-Kr.[3])	144	+48 35 0.4	— 0 31 4.53	— 5.10	+48 23 29.9	9.999190
Sydney	44	—33 51 41.1	—10 4 49.60	—99.35	—33 40 58.2	9.999551
Tacubaya[4])	2322	+19 24 17.5	+ 6 36 46.53	+65.18	+19 17 2.6	9.999998
Taschkent	457	+41 19 31.3	— 4 37 10.69	—45.53	+41 8 1.7	9.999396
Taunton Mass. (Metcalf) .	8	+41 54	+ 4 44 20	+46.71	+41 42	9.999351
Teramo (Cerulli)	398	+42 39 27	— 0 54 56	— 9.02	+42 27 54	9.999358
Tokio	—	+35 39 17.5	— 9 18 58.0	—91.82	+35 28 19.2	9.999506
Toronto	108	+43 39 35.9	+ 5 17 34.69	+52.17	+43 28 1.1	9.999313
Tortosa (Ebro-Stw.) M.-Kr.	—	+40 49 14	— 0 1 58.5	— 0.32	+40 37 46	9.999378
Toulouse	194	+43 36 45.3	— 0 5 51.0	— 0.96	+43 25 10.6	9.999320
Triest	23	+45 38 45.4	— 0 55 2.90	— 9.04	+45 27 9.9	9.999256
Troy N. Y.	—	+42 43 52.9	+ 4 54 44.6	+48.42	+42 32 19.6	9.999329
Tsingtau (Met.-astr. Stat.)	—	+36 4 11.3	— 8 1 16.21	—79.06	+35 53 9.8	9.999496
Tulse Hill (W. Huggins) .	53	+51 26 47.0	+ 0 0 27.7	+ 0.08	+51 15 28.4	9.999111
Turin Mer.-Kr.	276	+45 4 7.9	— 0 30 47.15	— 5.06	+44 52 32.2	9.999288
Twickenham (G. Bishop)	—	+51 27 4.2	+ 0 1 13.1	+ 0.20	+51 15 45.6	9.999108
Upsala (N. Stw.) Pass.-Instr.	21	+59 51 29.4	— 1 10 30.13	—11.58	+59 41 24.2	9.998909
Urbana Jll.	236	+40 6 20.2	+ 5 52 53.97	+57.97	+39 54 55.1	9.999412
Utrecht	12	+52 5 9.5	— 0 20 31.6	— 3.37	+51 53 54.4	9.999093
Valkenburg (Ignatius Coll.)	—	+50 52 29.3	— 0 23 19.91	— 3.83	+50 41 7.8	9.999122
Venedig	15	+45 26 10.5	— 0 49 22.12	— 8.11	+45 14 34.9	9.999261
Warschau[5]) Zentr. d. Stw.	110	+52 13 4.6	— 1 24 7.25	—13.82	+52 1 50.3	9.999096
Warschau[6])	—	+52 13 10	— 1 24 5	—13.81	+52 1 56	9.999088
Washington (Alte Stw.)	31	+38 53 38.9	+ 5 8 12.13	+50.63	+38 42 19.4	9.999428

[1]) Davidson Observatory. — [2]) Alte Sternwarte, 1857 nach Gotha verlegt. — [3]) Seit Anfang 1881. — [4]) Seit März 1883, früher in Chapultepec. — [5]) Universitäts-Sternwarte. — [6]) Dr. Jedrzejewicz; seit 1898, früher in Plonsk.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
Washington (Neue Stw.) .	82 m	+38° 55′ 14.0″	+ 5h 8m 15.80s	+ 50.64s	+38° 43′ 54.4″	9.999431
Washington (Kath. Univ.) .	—	+38 56 14.8	+ 5 8 0.0	+ 50.60	+38 44 55.1	9.999425
Wellington Transit Instr.[1])	127	−41 17 3.8	−11 39 4.27	−114.84	−41 5 34.3	9.999375
Wellington (Mt. Cook Obs.)[2])	44	−41 16 47.1	−11 39 5.31	−114.84	−41 5 17.6	9.999369
West Point N.Y. (N. Stw.)[3])	170	+41 23 22.1	+ 4 55 50.6	+ 48.60	+41 11 52.3	9.999375
Whitestone (Field Obs.) .	—	+40 47 21.6	+ 4 55 7.7	+ 48.48	+40 35 53.8	9.999379
Wien (Alte Sternw.)	167	+48 12 35.5	− 1 5 31.61	− 10.76	+48 1 3.9	9.999201
Wien (Josephstadt)[4]) . . .	214	+48 12 53.8	− 1 5 25.17	− 10.74	+48 1 22.2	9.999204
Wien (Neue Sternw.) Zentr. .	240	+48 13 55.4	− 1 5 21.36	− 10.73	+48 2 23.9	9.999205
Wien (Ottakring)[5])	285	+48 12 46.7	− 1 5 10.97	− 10.71	+48 1 15.1	9.999209
Wien (Mil. Geogr. Inst.) . .	—	+48 12 40.0	− 1 5 26.25	− 10.75	+48 1 8.4	9.999189
Wien (Techn. Hochschule) .	—	+48 11 58.5	− 1 5 29.71	− 10.76	+48 0 26.9	9.999190
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	− 0 32 35.06	− 5.35	+53 20 46.4	9.999057
Williams-Bay Wisc.[6]) .	335	+42 34 12.6	+ 5 54 13.28	+ 58.19	+42 22 39.6	9.999356
Williamstown Mass. . .	213	+42 42 49	+ 4 52 53.5	+ 48.12	+42 31 16	9.999344
Williamstown Vict. . .	—	−37 52 7.2	− 9 39 38.1	− 95.22	−37 40 53.5	9.999451
Wilna Pass.-Instr.	122	+54 40 59.1	− 1 41 8.76	− 16.61	+54 30 2.1	9.999036
Windsor N. S. W.[7]) . .	16	−33 36 30.8	−10 3 20.77	− 99.11	−33 25 50.2	9.999556
Zô-sè China	100	+31 5 48	− 8 4 44.80	− 79.63	+30 55 34	9.999619
Zürich Meridian-Kreis .. .	468	+47 22 38.3	− 0 34 12.3	− 5.62	+47 11 4.8	9.999242

[1]) Hector Observatory. — [2]) 1884 abgebrochen. — [3]) Seit 1883. Alte Sternwarte 9″ nördlich, 1s.2 östlich. — [4]) von Oppolzers Sternwarte. — [5]) v. Kuffner. — [6]) Yerkes Observatory. — [7]) J. Tebbutt. Neue Sternwarte, 0″.4 südlich von der alten.

Normalzeiten der wichtigeren Länder

a) An den Meridian von Greenwich angeschlossen

Normalzeit	Bezeichnung	Staaten
11h 30m O.	—	Neu Seeland
10 0	Ostaustralische Z.	Victoria, Neu Süd-Wales, Queensland, Tasmanien
9 30	—	Süd-Australien
9 0	—	Japan, Korea
8 0	Ostchinesische Küsten-Z.	Ostküste von China, West-Australien
7 0	Südchinesische Küsten-Z.	Südküste von China, Franz. Indochina
5 30	—	Ostindien
2 30	—	Deutsch Ostafrika
2 0	Osteuropäische Z.	Bulgarien, Rumänien, Türkei, Ägypten, Süd-Afrika
1 0	Mitteleuropäische Z. (M. E. Z.)	Dänemark, Deutschland, Italien, Luxemburg, Norwegen, Österreich-Ungarn, Schweden, Schweiz, Serbien, Deutsch Südwest-Afrika
0 0	Westeuropäische Z. (Greenwich Z.)	Belgien, Frankreich, Großbritannien und Irland, Portugal, Spanien, Gibraltar, Algerien
3 0 W.	—	Ost-Brasilien
4 0	Atlantic St. Time	Mittel-Brasilien, Canada (Küste)
5 0	Eastern St. Time	Canada (Quebec, Ontario bis 82° 30′ westl.), Vereinigte Staaten (Ost-Zone), Chile, Panama, Peru, West-Brasilien
6 0	Central St. Time	Zentral-Zone von Canada und Vereinigte Staaten
7 0	Mountain St. Time	Gebirgszone von Canada und Vereinigte Staten
8 0	Pacific St. Time	Vereinigte Staaten (Pacifische Küste), Britisch Kolumbien
10 30	—	Sandwich Inseln

b) Nicht an den Meridian von Greenwich angeschlossen

Staaten	Meridian	Längendifferenz gegen Greenwich	Staaten	Meridian	Längendifferenz gegen Greenwich
Argentinien	Cordoba	4h 16m 48.2s W.	Niederlande	Amsterdam	0h 19m 32.1s O.
Columbien	Bogota	4 56 54.2 W.	Rußland	Pulkowa	2 1 18.6 O.
Ecuador	Quito	5 14 6.7 W.	Uruguay	Montevideo	3 44 48.9 W.
Griechenland	Athen	1 34 52.9 O.	Venezuela	Caracas	4 27 43.6 W.
Mexico	Mexico	6 36 26.7 W.			

Besondere Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs.

Das Jahrbuch gibt die Örter der *Wandelsterne* in geozentrischen und in heliozentrischen Koordinaten. Die Zeitpunkte, für die sie gelten, sind, wenn nicht ausdrücklich eine andere Zeit angegeben wird, in Mittlerer Zeit Greenwich ausgedrückt.

Die Örter der *Fixsterne* sind einmal als wahre, auf das mittlere Äquinoktium des Jahresanfangs bezogen, und dann in Ephemeridenform als scheinbare, auf das instantane wahre Äquinoktium bezogen, gegeben.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

Sonnenephemeride (S. 2—38).

Der erste Teil der Sonnenephemeride (S. 2—19) gibt auf den linken Seiten für jeden mittleren Greenwicher Mittag:

1) Die Zeitgleichung = Mittlere Zeit *minus* Wahre Zeit.

2) Die geozentrischen, äquatorialen Koordinaten α, δ des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, in den Koordinaten nicht enthalten.

3) Die halbe Durchgangsdauer der Sonnenscheibe durch den Meridian in Sternzeit.

4) Den geozentrischen Halbmesser H der Sonnenscheibe, d. i. der Winkel, unter dem der Sonnenhalbmesser vom Erdmittelpunkt aus erscheint.

Die rechten Seiten geben:

1) Den Tag der julianischen Periode.

2) Die Sternzeit im Mittleren Greenwicher Mittag.

Um für einen anderen Erdort der westlichen Längendifferenz $\Delta\lambda$ (in Stunden) gegen Greenwich die Sternzeit in seinem Mittleren Mittag zu erhalten, ist zu diesen Angaben zuzulegen: $9^s.8565\,\Delta\lambda$. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten.

3) Die geozentrischen ekliptikalen Koordinaten λ, β des wahren Sonnenorts, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie log R, den Logarithmus der Entfernung R der Erde von der Sonne. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.

4) Die mittleren Ortszeiten des Aufgangs und Untergangs der Sonne für einen Ort des Nullmeridians in $+50^0$ Breite; sie sind mit der Horizontalrefraktion $34'.9$ berechnet und gelten für den oberen Rand der Sonne. Um daraus für einen beliebigen anderen Ort zwischen $+45^0$ und $+55^0$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 420 zu benutzen.

Auf S. 20—37 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen geozentrischen äquatorialen Sonnenkoordinaten für 0^h und 12^h Mittlere Zeit Greenwich mit ihren stündlichen Änderungen in Einheiten der siebenten Dezimale. Daneben stehen von Tag zu Tag ihre Reduktionen auf das mittlere Äquinoktium 1925.0. Auf S. 367—369 sind die vereinigten Werte, d. h. die auf das mittlere Äquinoktium 1925.0 bezogenen rechtwinkligen Sonnenkoordinaten sechsstellig von 4 zu 4 Tagen gegeben; sie dienen zur bequemen Verbindung der Koordinatenangaben aufeinanderfolgender Jahre bei Rechnungen über kleine Planeten und Kometen. Am Fuß der Seite 37 finden sich die Zeiten für die Anfänge der Jahreszeiten und für das Peri- und Apogäum der Sonne.

Die Seite 38 enthält die Aberration, Parallaxe, mittlere Länge $L_\odot$ und mittlere Anomalie $M_\odot$ der Sonne im Intervall von je 10 Tagen.

Mondephemeride (S. 39—58).

Seite 39 enthält die Zeitangaben für die Phasen und das Peri- und Apogäum des Mondes.

Die Mondephemeride (S. 40—57) gibt auf den linken Seiten für 12^h Mittlere Zeit Greenwich:

1) Die scheinbare Rektaszension und Deklination des Mondes mit den ersten Differenzen.

2) Die Äquatorial-Horizontalparallaxe $p_☾$ des Mondes.

3) Den geozentrischen Mondhalbmesser $r_☾$, d. i. der Winkel, unter dem der Mondhalbmesser vom Erdmittelpunkt aus erscheint.

4) Die Länge und Breite des Mondes, abgekürzt auf $0^0.001$.

Die rechten Seiten enthalten:

1) Für den oberen Durchgang des Mondes im Meridian von Greenwich die genäherten Angaben für die Rektaszension, Deklination und Parallaxe des Mondmittelpunktes, sowie die Mittlere Greenwicher Zeit dieses Durchgangs, nebst den Änderungen für 1^h Längendifferenz.

2) Die mittleren Ortszeiten des Aufgangs und Untergangs des Mondes für einen Ort des Nullmeridians in $+50^0$ Breite nebst Änderung für 1^h Längendifferenz; sie sind mit der Horizontalrefraktion $34'.9$ berechnet und gelten für den oberen Rand des Mondes. Um daraus für einen beliebigen anderen Ort zwischen $+45^0$ und $+55^0$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 421 zu benutzen.

Auf S. 58 finden sich:

Ω, Aufsteigender Knoten der Mondbahn auf der Ekliptik
$L_{☾}$, Mittlere Länge des Mondes
$M_{☾}$, Mittlere Anomalie des Mondes
i, Neigung des Mondäquators gegen den Erdäquator
Ω', Aufsteigender Knoten des Mondäquators auf dem Erdäquator
Δ, Stück des Mondäquators zwischen Ekliptik und Erdäquator

$☋$, der aufsteigende Knoten des Mondäquators auf der Ekliptik ist gleich dem absteigenden Knoten der Mondbahn, also

$$☋ = \Omega \pm 180^0.$$

Die Größen i, Δ und Ω' berechnen sich aus:

$$\sin\frac{1}{2}(\Delta + \Omega')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon - J)\sin\frac{1}{2}☋$$

$$\cos\frac{1}{2}(\Delta + \Omega')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon + J)\cos\frac{1}{2}☋$$

$$\sin\frac{1}{2}(\Delta - \Omega')\sin\frac{1}{2}i = \sin\frac{1}{2}(\varepsilon - J)\sin\frac{1}{2}☋$$

$$\cos\frac{1}{2}(\Delta - \Omega')\sin\frac{1}{2}i = \sin\frac{1}{2}(\varepsilon + J)\cos\frac{1}{2}☋;$$

dabei ist J, die Neigung des Mondäquators gegen die Ekliptik, nach F. Hayn (Astr. Nachr. Bd. 199, S. 263) zu $J = 1^0\,32'\,20''$ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die auf S. 58 gemachten Angaben über die Elemente der Mondbahn und des Mondäquators dienen, teilweise in Verbindung mit den Größen $L_{\odot}$ und $M_{\odot}$ auf S. 38, verschiedenen Zwecken:

1) Als Argumente für die Berechnung der Reduktionsgrößen A, B, C, D, E, A', B'.

2) Bei Bestimmung der selenographischen Koordinaten von Punkten der Mondoberfläche (siehe darüber den folgenden Abschnitt).

3) Bei Berechnung der *optischen* und *physischen* Libration des Mondes.

a) Für die Berechnung der *optischen* Libration des Mondes sind alle nötigen Angaben in den Erläuterungen zu den Hilfstafeln unter Nr. 6 gemacht.

b) Die Beträge der *physischen* Mondlibration in selenographischer Länge, der Neigung des Mondäquators und seinem aufsteigenden Knoten auf der Ekliptik τ, ϱ, σ haben die Werte:

$$\tau = -\ 13''\sin M_{☾} + 65''\sin M_{\odot} + 26''\sin 2\,(L_{☾} - M_{☾} - \Omega)$$

$$\varrho = -106''\cos M_{☾} + 34''\cos(2\,L_{☾} - M_{☾} - 2\,\Omega) - 11''\cos 2\,(L_{☾} - \Omega)$$

$$\sigma\sin J = -108''\sin M_{☾} + 34''\sin(2\,L_{☾} - M_{☾} - 2\,\Omega) - 11''\sin 2\,(L_{☾} - \Omega)$$

Diese Zahlenangaben beruhen auf der Annahme $f = 0.73$, worüber F. Hayn (Astr. Nachr. Bd. 199, S. 264) einzusehen ist.

Ephemeride für den Mondkrater Mösting A

(S. 59—63).

Die Ephemeride des Mondkraters Mösting A dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Beobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschluß an Mösting A.

Sie gilt für 12^h Mittlere Zeit Greenwich und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_☾ - \alpha_k$ in Rektaszension und $\delta_☾ - \delta_k$ in Deklination zwischen der Mondmitte und dem Krater, vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe p_k des Kraters, welche von der des Mondes $p_☾$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Beobachtungen des Kraters interpoliere man $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Beobachtungszeit. Fügt man alsdann $\alpha_☾ - \alpha_k$ und $\delta_☾ - \delta_k$ zum geozentrischen Ort des Kraters (die Parallaxe wird mit p_k und δ_k, der Deklination des Kraters, berechnet), so hat man die geozentrische AR. und Dekl. des Mondes für die Beobachtungszeit.

Hat man einen Punkt der Mondoberfläche mikrometrisch an Mösting A angeschlossen, so bestimme man zunächst die topozentrischen, d. h. mit Parallaxe behafteten Koordinatendifferenzen $\alpha'_☾ - \alpha'_k$ und $\delta'_☾ - \delta'_k$ zwischen Mondmittelpunkt und Mösting A aus folgenden Identitäten:

$$\alpha'_☾ - \alpha'_k = \alpha_☾ - \alpha_k + (\alpha'_☾ - \alpha_☾) - (\alpha'_k - \alpha_k)$$
$$\delta'_☾ - \delta'_k = \delta_☾ - \delta_k + (\delta'_☾ - \delta_☾) - (\delta'_k - \delta_k).$$

Verbindet man die so erhaltenen topozentrischen Abstände zwischen der Mondmitte und Mösting A mit den mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die topozentrische Lage des letzteren gegen die Mondmitte und kann hieraus mit Hülfe von $\alpha'_☾$ und $\delta'_☾$ und den Angaben auf Seite 58 die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die topozentrische AR. und Dekl. des an Mösting A angeschlossenen Kraters, so hat man:

$$s \sin \pi_m = (\alpha' - \alpha'_☾) \cos \tfrac{1}{2}(\delta' + \delta'_☾)$$
$$s \cos \pi_m = \delta' - \delta'_☾$$
$$\pi = \pi_m - \tfrac{1}{2}(\alpha' - \alpha'_☾) \sin \tfrac{1}{2}(\delta' + \delta'_☾)$$
$$\sin(K + s) = \sin s \operatorname{cosec} h'.$$

h' ist der Abstand des Kraters vom Mondschwerpunkt, gesehen vom Beobachtungsort aus, der aus h, dem vom Erdmittelpunkt aus gesehenen Abstand, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers 15′ 32″.59 (nach J. Peters, Astr. Nachr. Bd. 138, S. 147) eingesetzt werden.

$$\sin d = -\sin \delta'_{☾} \cos K + \cos \delta'_{☾} \sin K \cos \pi$$
$$\cos d \cos (a - \alpha'_{☾}) = -\cos \delta'_{☾} \cos K - \sin \delta'_{☾} \sin K \cos \pi$$
$$\cos d \sin (a - \alpha'_{☾}) = \sin K \sin \pi$$
$$\sin \beta = \sin d \cos i - \cos d \sin i \sin (a - ☊')$$
$$\cos \beta \sin \lambda' = \sin d \sin i + \cos d \cos i \sin (a - ☊')$$
$$\cos \beta \cos \lambda' = \cos d \cos (a - ☊')$$
$$\lambda = \lambda' - 180^\circ - L_{☾} - (\Delta - ☋).$$

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einfluß der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$d\lambda = +13'' \sin M_{☾} - 65'' \sin M_{\odot} - 26'' \sin 2 (L_{☾} - M_{☾} - ☊)$$
$$+ \operatorname{tg} \beta [-106'' \cos (L_{☾} - M_{☾} - ☊ + \lambda) + 34'' \cos (L_{☾} - M_{☾} - ☊ - \lambda)$$
$$- 11'' \cos (L_{☾} - ☊ - \lambda)]$$
$$d\beta = +108'' \sin (L_{☾} - M_{☾} - ☊ + \lambda) + 34'' \sin (L_{☾} - M_{☾} - ☊ - \lambda)$$
$$- 11'' \sin (L_{☾} - ☊ - \lambda)$$

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters:

$$\lambda_0 = \lambda + d\lambda, \qquad \beta_0 = \beta + d\beta$$

Der Berechnung der Ephemeride des Kraters Mösting A liegen folgende von F. Hayn ermittelte Konstanten (Astr. Nachr. Bd. 199, S. 263) zugrunde:

$$\lambda_0 = -5^\circ\ 10'\ 7'', \qquad \beta_0 = -3^\circ\ 11'\ 2''$$
$$h = 15'\ 33''.4$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$d\lambda = -13'' \sin M_{☾} + 65'' \sin M_{\odot} + 26'' \sin 2 (L_{☾} - M_{☾} - ☊)$$
$$d\beta = -107'' \sin (L_{☾} - M_{☾} - ☊ + \lambda_0) - 34'' \sin (L_{☾} - M_{☾} - ☊ - \lambda_0)$$
$$+ 11'' \sin (L_{☾} - ☊ - \lambda_0),$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A sind:

$$\lambda = \lambda_0 + d\lambda, \qquad \beta = \beta_0 + d\beta.$$

Die Formeln zur Berechnung der Ephemeride siehe in den Erläuterungen zum Jahrbuch 1916.

Ephemeriden der Grossen Planeten

(S. 64—112).

Die geozentrischen Örter der Planeten sind für Merkur, Venus und Mars von Tag zu Tag, für Jupiter, Saturn und Uranus von 2 zu 2 Tagen und für Neptun von 4 zu 4 Tagen mit ihren ersten Differenzen gegeben, und zwar in scheinbaren, d. h. auf das momentane wahre Äquinoktium bezogenen Koordinaten des scheinbaren Orts, für 0^h Mittlere Zeit Greenwich. Die letzte Spalte gibt die Mittlere Greenwicher Zeit der oberen Kulmination in Greenwich.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnis der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für	Merkur	Halbmesser	. . . . .	3.34″		
»	Venus	»	. . . . .	8.78		
»	Mars	»	. . . . .	4.68		
»	Jupiter	»	(Äquatorial)	99.8,	(Polar)	92.6″
»	Saturn	»	(Äquatorial)	81.4,	(Polar)	73.4
»	Uranus	»	. . . . .	34.7		
»	Neptun	»	. . . . .	45		

Die heliozentrischen Ephemeriden der Planeten (S. 109—112) geben den Log. des Radiusvector, die Länge in der Bahn, deren Reduktion auf die Ekliptik und die Breite, außerdem bei den Planeten Jupiter, Saturn, Uranus und Neptun noch den bei Störungsrechnungen manchmal gebrauchten Winkel B_0, welchen der Radiusvector mit derjenigen Bahnebene macht, für welche die bei jedem Planeten gemachten Angaben über ☊ und i gelten.

Bei Jupiter, Saturn, Uranus und Neptun stellen ☊ und i die Bahnlage für die Epoche 1925.0 und das Normaläquinoktium 1925.0 dar; bei Merkur, Venus und Mars gelten sie für den Jahresanfang 1919.0 und sind bezogen auf das Äquinoktium 1925.0.

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben sind ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die beigefügten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden. Für die Erde ist noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, Radiusvector und heliozentrische Länge sich auf den Schwerpunkt des Systems »Erde + Mond« beziehen.

Mittlere Örter von 925 Fixsternen (S. 114—137).

Die mittleren Örter der 925 Fixsterne sind aus den Daten der Veröffentlichung Nr. 33 des *Königlichen Astronomischen Rechen-Instituts* mit den daselbst angegebenen Hilfsgrößen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 Polsterne sind durch mechanische Quadratur berechnet.

Die Angaben über die Sternspektra sind der »Revised Harvard Photometry« in »Harvard Annals, vol. 50« entnommen.

Scheinbare Örter von 573 Fixsternen (S. 138—337).

Die scheinbaren Örter der Fixsterne sind für den Moment der oberen Kulmination im Greenwicher Meridian gegeben und enthalten die kurzperiodischen Mondglieder der Nutation nicht; nur bei den 18 Polsternen ist deren Betrag gesondert unter der Überschrift ☾Gl. gegeben.

Zunächst werden die scheinbaren Örter von 555 Sternen von 10 zu 10 Sterntagen gegeben; in der ersten Spalte ist die Mittlere Greenwicher Zeit der Kulmination hinzugefügt.

Es folgen die scheinbaren Örter für 18 weniger als 10° von den Polen entfernte Sterne für jede obere Kulmination. Die Anordnung ist eine derartige, daß für jeden Zeitraum einer Seite sämtliche 9 (entweder nördliche oder südliche) Polsterne nebeneinander aufgeführt sind, wie es für den Gebrauch am geeignetsten erscheint. Die Glieder zweiter Ordnung der »Reduktion auf den scheinbaren Ort« sind hierbei berücksichtigt.

Am Fuß der Ephemeriden ist der mittlere Ort eines jeden Sterns für den Anfang des Jahres, außer für die Polsterne, wieder angegeben, dazu die Werte von tg δ und sec δ, welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden.

Die jährliche Parallaxe ist bei folgenden Sternen, bei denen sie 0″.20 übersteigt und hinreichend verbürgt erscheint, nämlich:

Nr. 59	τ Ceti	mit 0″.31		Nr. 538	α Centauri	mit 0″.75
Nr. 127	ε Eridani	» 0.32		Nr. 745	α Aquilae	» 0.23
Nr. 257	α Can. maj.	» 0.38		Nr. 793	61 Cygni	» 0.30
Nr. 291	α Can. min.	» 0.33				

bereits berücksichtigt. Von den nicht mit Ephemeriden versehenen Sternen des F. K. besitzt noch Nr. 825, ε Indi eine Parallaxe von 0″.25.

Reduktionsgrössen (S. 338—374).

Auf die scheinbaren Örter der Sterne folgt S. 338 eine Zusammenstellung der Werte, mit welchen die Reduktionsgrößen der darauf folgenden Tafeln berechnet sind, und der Formeln für die Reduktion auf den scheinbaren Ort.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer *ersten* Form: A, B, C, D, E; A', B' gegeben für 12^h Sternzeit des Meridians von Greenwich:

1) Auf S. 339 im Intervall von 10 Sterntagen.

Diese Tafel soll zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge dienen. Wegen ihrer logarithmischen Form und des großen Intervalls ist die Tafel zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach der Summierung der einzelnen unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

2) Auf S. 358—366 für jeden Sterntag. Hier sind die numerischen Werte von A, B, C und D mit ihren Differenzen gegeben und die kurzperiodischen Mondglieder A' und B' mit angeführt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende Mittlere Zeit Greenwich vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz gegen Greenwich, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der *zweiten* Form: f, $\log g$, G, $\log h$, H, $\log i$ sowie f', g' und G' sind S. 340—357 von Tag zu Tag für 12^h Mittlere Zeit Greenwich gegeben. Um den Gebrauch der Spalte $\log i$ zu erleichtern, sind an den Stellen, wo die Werte von i durch Null gehen, auch die numerischen Werte in besonderer Spalte hinzugefügt.

Auch hier findet sich eine Spalte, t überschrieben, welche die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres gibt.

Die Seiten mit ungerader Seitenzahl enthalten außer den schon erwähnten f', g', G' noch folgende Größen:

a) ψ = Allgemeine Präzession seit 1919.0.
b) $\Delta\psi$ = Langperiodische Glieder der Nutation in Länge.
c) $\Delta\psi'$ = Kurzperiodische Glieder der Nutation in Länge.
d) Die wahre Schiefe der Ekliptik.
e) $\Delta\varepsilon$ = Langperiodische Glieder der Nutation in Schiefe.
f) $\Delta\varepsilon'$ = Kurzperiodische Glieder der Nutation in Schiefe.

Die mittlere Schiefe der Epoche erhält man durch Subtraktion der Gesamtnutation $(\Delta\varepsilon + \Delta\varepsilon')$ von der wahren Schiefe (in Spalte d).

Weitere Reduktionsgrößen folgen auf Seite 367—369. Es sind dies zunächst die rechtwinkligen äquatorialen Sonnenkoordinaten, bezogen auf das Normaläquinoktium 1925.0, die hauptsächlich zur Berechnung von genaueren Ephemeriden kleiner Planeten nützlich sind.

Die auf den gleichen Seiten gegebenen Größen f, $\log g$ und G dienen zur Übertragung der Örter von dem mittleren Normaläquinoktium $t_2 = 1925.0$ auf das instantane wahre Äquinoktium t_1. Diese Übertragung bedarf noch einer Korrektion, die man der Seite 370 entnehmen kann.

Auf Seite 371 findet sich eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium von 1919.0 sowie eine Tafel der Hilfsgrößen zur Berechnung der Präzession von verschiedenen mittleren Äquinoktien bis 1919.0.

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium von 1919.0 auf das Normaläquinoktium 1925.0 (auf Seite 372 bis 374) beschließt die Sammlung der Tafeln der Reduktionsgrößen.

Sonnen- und Mondfinsternisse (S. 376—381).

Die Angaben über die Finsternisse sind den von dem Nautical Almanac Office, Washington, gemachten Mitteilungen entnommen. Da diese Mitteilungen nur Angaben über die Zentralkurven enthielten, wurden die anderen Grenzkurven für die Sichtbarkeit der Finsternis im Kgl. Astronomischen Rechen-Institut berechnet.

Über die Verwendung der bei den Sonnenfinsternissen gegebenen Besselschen Elemente zur Vorausberechnung der Phasenzeiten und der Positionswinkel der Kontakte siehe die Erläuterungen zum Jahrbuch 1916, die auch ein durchgeführtes Zahlenbeispiel enthalten.

(μ' ist nicht mehr tabuliert und durchgangs = 15 anzusetzen.)

Sternbedeckungen durch den Mond (S. 382—385).

Aus den seitens des Nautical Almanac Office, Washington, übermittelten Angaben über die Sternbedeckungen im Jahre 1919 wurden die an irgend einem Ort in Mitteleuropa (das Gebiet gelegen zwischen $+45^0$ und $+55^0$ geographischer Breite und $0^h\,25^m$ und $1^h\,25^m$ östlicher Greenwicher Länge) beobachtbaren Bedeckungen ausgezogen. Für diese sind gegeben:

1) ein Verzeichnis der bedeckten Sterne; die angegebenen Nummern beziehen sich auf den: Catalogue of Zodiacal Stars by H. B. Hedrick, veröffentlicht in: Astronomical Papers of the American Ephemeris, Vol. VIII, Part III.
2) die Mittlere Greenwicher Zeit der Konjunktion in Rektaszension von Mond und Gestirn.

Es soll mit diesen Angaben nur auf die Bedeckungen aufmerksam gemacht werden. Bezüglich der zur genaueren Vorausberechnung (siehe die Erläuterungen zum Jahrbuch 1916, die auch ein Beispiel enthalten) dienenden Elemente sei auf die American Ephemeris verwiesen.

Jupiterstrabanten (S. 386—387).

Die Seiten 386 und 387 enthalten die Zeitangaben für die Verfinsterungen der vier älteren Jupiterstrabanten in dem Schattenkegel des Jupiter; Ein- und Austritte sind durch beigefügtes E. und A. unterschieden.

Die Angaben sind den Mitteilungen des Nautical Almanac Office, Washington, entnommen.

Saturnsring (S. 388—391, 403).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsringes haben die folgende Bedeutung:

α Große Achse des Saturn.

β Scheinbare kleine Achse des Saturn.

p_a Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Große Achse der Ringellipse.

b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Längenkreise; östlich positiv, westlich negativ.

U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise; östlich positiv, westlich negativ.

N Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an.

J Neigung der Ringebene gegen den Erdäquator.

ω Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene.

Es liegen folgende Bestimmungen nach Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial 17".47 Polar 15".65

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25

$$\Omega_1 = 167^\circ\ 57'.0 \quad \text{und} \quad i_1 = 28^\circ\ 5'.6;$$

Durchmesser des Ringes in der Entfernung 9.53887

$$2\,R = 39''.35.$$

Saturnstrabanten (S. 392—416).

Alle Berechnungen über die Saturnstrabanten sind mit den von H. Struve in:

I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den »*Observations de Poulkova*«;

II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. XI,

abgeleiteten, in Astr. Nachr. Bd. 162, S. 325 u. ff. weiter verbesserten Elementen durchgeführt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnsmasse $\mu = \frac{1}{3500}$ rechnerisch abgeleiteten Werte angenommen.

Zunächst sind für die fünf inneren Trabanten auf den Seiten 392 bis 403 die Hilfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkeligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos(u-U).$$

$(\Delta) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, Δ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin B \left[\cos(u-U) + \sin\gamma \operatorname{cotg} B \sin(u-\vartheta)\right].$$

Die Werte von ϑ, der Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator, finden sich auf Seite 403; auch ist hier für Rhea γ, weil stärker mit der Zeit veränderlich, in Intervallen von 16 Tagen gegeben.

Will man aus x und y die Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p - P) = x$$

$$s \cos(p - P) = y$$

$$\varDelta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$

$$\varDelta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 404—412 finden sich für die drei äußeren Trabanten Titan, Hyperion und Japetus, außer den Hilfsgrößen U, B und P, die Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet. Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind wahre Örter und beziehen sich auf das mittlere Äquinoktium der Epoche.

Zum Schluß enthalten die Seiten 413—416 die Zeitangaben für die östlichen Elongationen von Mimas, Enceladus, Tethys, Dione, Rhea, ferner für die östlichen und westlichen Elongationen ($u - U = \pm 90°$) und für die oberen und unteren Konjunktionen ($u - U = 0°, 180°$) von Titan, Hyperion und Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

Konstellationen (S. 417).

In der Übersicht der Konstellationen des Jahres 1919 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne, Mond und die Sterne 1. und 2. Größe, letztere nur soweit, als die Differenz der Deklination zwischen Planet und Stern den Betrag von 1^0 nicht übersteigt, sowie die Angaben der Epochen, zu welchen sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeutung der hier verwendeten Zeichen siehe Seite VIII des Vorworts. — Die Konjunktionen der Planeten mit dem Mond und ihre gegenseitigen sind als Konjunktionen in AR. zu verstehen. Letztere sind nur insoweit berücksichtigt, als die Differenz der Deklinationen beider Planeten den Betrag von 3° nicht übersteigt. Für die Berechnung der Epochen der größten Helligkeit der Venus wurde für die Lichtstärke die Formel von G. Müller (*Publikation des Astrophys. Observatoriums zu Potsdam,* Bd. VIII, Seite 197 ff.) zugrunde gelegt:

$$h = -4.004 + 0.01322\,\alpha + 0.0000004247\,\alpha^3 + 5 \log(r\varDelta),$$

worin α (in Graden) den Winkel an der Venus im Dreieck Sonne—Venus—Erde, r und $\varDelta$ die ihn einschließenden Seiten bezeichnen.

Hilfstafeln (S. 418—435).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Tafel des halben Tagbogens (S. 418—419). Berechnet mit der Horizontalrefraktion 34'.9 für geographische Breiten von $+45^\circ$ bis $+55^\circ$ und Deklinationen von $+30^\circ$ bis -30°.

2) Reduktionstafeln für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 420—421). Sie geben die Reduktion der für $+50^\circ$ Breite gültigen Zeiten, wie sie in den Ephemeriden enthalten sind, auf geographische Breiten zwischen $+45^\circ$ und $+55^\circ$ und sind mit der Horizontalrefraktion 34'.9 für das Erscheinen oder Verschwinden des oberen Gestirnsrandes gerechnet.

3) Eine Tafel für die Ermittelung eines Datums in der julianischen Periode (Seite 422—425.) Die Tafel besteht aus zwei Teilen: Der erste Teil (S. 422—423) gibt in vierjährigen Schaltperioden für die Jahre 0 bis 2000 die Anzahl der am 0. Januar seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am 0. jedes Monats seit Beginn der Schaltperiode verflossenen Tage. Der zweite Teil (S. 424—425) gibt für die Jahre 1860—1939 unmittelbar die Anzahl der am 0. jedes Monats im gregorianischen Kalender seit Beginn der julianischen Periode verflossenen Tage.

4) Hilfstafeln zur Verwandlung von Mittlerer Zeit in Sternzeit (S. 426) und von Sternzeit in Mittlere Zeit (S. 427).

5) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (S. 428—429).

6) Die Tafel zur Berechnung der optischen Mondlibration (S. 430—431) gibt mit dem Argument $\lambda - \Omega$ die Werte $\Delta\lambda$, a und B entsprechend den Gleichungen:

$$\Delta\lambda = \frac{1}{\operatorname{arc} 1'} \operatorname{tang}^2 \frac{1}{2} J \sin 2(\lambda - \Omega)$$

$$a = -\cos(\lambda - \Omega) \sin J$$

$$\operatorname{tang} B = -\sin(\lambda - \Omega) \operatorname{tang} J$$

J = Neigung des Mondäquators gegen die Ekliptik.

Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik (s. S. 58).

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

Bezeichnen noch $L_☾$ die mittlere Länge des Mondes, l' und b' die optische Libration der Mondmitte in selenographischer Länge und Breite, so ist:

$$l' = \lambda - L_☾ + \Delta\lambda - a(B-\beta)$$
$$b' = B - \beta$$

Der Winkel C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Stundenkreise bildet, ergibt sich aus der Gleichung:

$$\sin C = -\sin i \frac{\cos(L_☾ + l' + \Delta - ☋)}{\cos \delta_☾} = -\sin i \frac{\cos(\alpha_☾ - ☊')}{\cos b'},$$

worin $\alpha_☾$, $\delta_☾$ Rektaszension und Deklination des Mondmittelpunktes, gesehen vom Beobachtungort aus, bezeichnen; die anderen vorkommenden Größen i, Δ, ☋ und ☊′ haben schon auf S. 447 ihre Erklärung gefunden.

7) Tafeln für Präzessionswerte (S. 432—434).

a) Präzession in Rektaszension und Deklination (Seite 434).

$$p_\alpha = m + \tfrac{1}{15} n \sin\alpha \operatorname{tg}\delta$$
$$p_\delta = n \cos\alpha$$

b) Präzession in Länge und Breite (Seite 432 u. 433).

$$p_\lambda = \psi + \pi \operatorname{tg}\beta \cos(\Pi - \lambda)$$
$$p_\beta = \pi \sin(\Pi - \lambda)$$

c) Präzessionswerte m, n, ψ, π, Π und die mittlere Schiefe der Ekliptik (Seite 434).

Den Tafeln a) und b) liegen die Präzessionswerte für 1925.0 zugrunde. Über die Bedeutung der Bezeichnungen und die Zahlenwerte vergleiche die Erläuterungen zum Jahrbuch für 1916.

8) Eine Tafel der Hilfsgrößen s und c (S. 435) zur Berechnung der geozentrischen Breite φ' und der geozentrischen Entfernung ϱ eines Erdortes, ausgedrückt in Einheiten der großen Halbachse des Erdellipsoids, aus der geographischen Breite φ nach den Formeln:

$$\varrho \sin\varphi' = s \sin\varphi$$
$$\varrho \cos\varphi' = c \cos\varphi$$

Darin haben s und c die Bedeutung:

$$s = \frac{1 - e^2}{\sqrt{1 - e^2 \sin^2\varphi}}, \quad c = \frac{1}{\sqrt{1 - e^2 \sin^2\varphi}}, \quad e = \sqrt{2\mathfrak{a} - \mathfrak{a}^2}$$

Gemäß den Beschlüssen der Pariser Ephemeridenkonferenz von 1911 ist dabei die Abplattung $\mathfrak{a} = \frac{1}{297.0}$ angenommen.

Koordinaten der Sternwarten (S. 436—443).

Die Seiten 436—443 enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben, wo sie sich einigermaßen sicher ermitteln ließen. Die Angaben sind zum größten Teil dem Verzeichnis von Prof. Auwers im *Geographischen Jahrbuch*, dem *Nautical Almanac* oder der *American Ephemeris* entnommen.

Neu aufgenommen ist die Lage der Sternwarte Berlin-Babelsberg. Die Angaben über Seehöhe und Länge verdankt die Schriftleitung einer Mitteilung des Direktors H. Struve; die Breite wurde einer Arbeit von Ernst Bernewitz über die Polhöhe von Babelsberg entnommen, erschienen als Heft 2 in Band II der Veröffentlichungen der Königlichen Sternwarte zu Berlin-Babelsberg.

Die geographischen Längen sind auf den Meridian von Greenwich bezogen und dem entsprechend gibt die »Korrektion der Sternzeit« die Differenz: Sternzeit im Mittleren Ortsmittag minus Sternzeit im Mittleren Greenwicher Mittag an.

Die geozentrischen Koordinaten sind den Beschlüssen der Pariser Ephemeridenkonferenz vom Oktober 1911 gemäß unter Annahme der Abplattung 1 : 297.0 berechnet.

Bei Berechnung von log ϱ ist die Seehöhe berücksichtigt.

Normalzeiten der wichtigeren Länder (S. 444).

Hier sind die in den wichtigeren Ländern eingeführten Normalzeiten in zwei Gruppen zusammengestellt, je nachdem sie an den Meridian von Greenwich angeschlossen sind oder einen eigenen Landes-Meridian zugrunde legen. Die Angaben sind nach dem Stande gemacht, wie er hier Anfang 1917 bekannt war.

Berichtigungen.

Jahrgang 1918, S. 416 März 14 lies ♂ ☍ ☉ statt ♂ ☌ ☉

» 1919, S. 114 Nr. 21. Die jährliche Veränderung in Deklination lies $+19''.771$ statt $+19''.777$

Alphabetisches Sachregister.

	Seite
Aberration, Konstante der	IV
der Sonne	38
siehe auch Reduktionsgrößen	
Berichtigungen zum Jahrbuch	459
Besselsche Größen siehe Reduktionsgrößen	
Datum, Julianisches siehe Julianisches Datum	
Ekliptik, Schiefe der siehe Schiefe	
Erde, Abplattung	IV
Heliozentrische Koordinaten des Systems Erde-Mond	111
Koordinatenverzeichnis von Sternwarten	436
Hilfstafel zur Berechnung der geozentrischen Koordinaten von Punkten der Erdoberfläche	435
Erläuterungen zum Jahrbuch	445
Finsternisse von Sonne und Mond	376
Inhaltsverzeichnis	V
Jahreszeiten, Beginn der	37
Julianisches Datum für jeden Tag von 1919	3
für die Jahre 0 bis 2000	422
für die Jahre 1860 bis 1939	424
Jupiter, Geozentrische Koordinaten nebst Kulminationszeiten	91
Heliozentrische Koordinaten	111
Jupiterstrabanten	386
Kalender, Gregorianischer	VI
Julianischer	VI
der Juden	VII
der Mohammedaner	VI
Konstanten, Astronomische	IV
Konstellationen	417
Libration des Mondes, Tafeln zur Berechnung der optischen	430
Physische	447
Mars, Geozentrische Koordinaten nebst Kulminationszeiten	82
Heliozentrische Koordinaten	110
Merkur, Geozentrische Koordinaten nebst Kulminationszeiten	64
Heliozentrische Koordinaten	109
Mittlere Örter siehe Sterne, Polsterne, Präzession, Tafeln	

Seite

Mittlere Zeit, Verwandlung in Sternzeit 426
in Bruchteilen des tropischen Jahres 340

Mond, Apogäum 39
Äquatorelemente . . . . III, 58
Aufgangszeiten für 50° Breite 41
Reduktionstafel dazu für Breiten zwischen +45° und +55° . 421
Bahnelemente 58
Finsternisse 376
Halbmesser, mittlerer Wert . . . . III, 449
» Ephemeride 40
Koordinaten äquatoriale 40, 41
» ekliptikale 40
Krater Mösting A, Lage 449
» » Ephemeride 59
Kulmination, Mittlere Zeit der oberen 41
Libration, Hilfstafeln zur Berechnung der optischen 430
» Physische 447
Parallaxe, Mittlerer Wert III
» Ephemeride 40, 41
Perigäum 39
Phasen 39
Untergangszeiten für 50° Breite 41
Reduktionstafel dazu für Breiten zwischen +45° und +55° . 421

Neptun, Geozentrische Koordinaten nebst Kulminationszeiten 106
Heliozentrische Koordinaten 112

Normalzeiten der wichtigeren Länder 444

Nutation, Konstante der IV
in Länge 341
in Schiefe der Ekliptik 341
siehe auch Reduktionsgrößen

Periode, Julianische, siehe Julianisches Datum

Planeten Große, Geozentrische Koordinaten nebst Kulminationszeiten . . 64
Heliozentrische Koordinaten 109
Halbmesser in der Entfernung 1 450

Polsterne, Mittlere Örter von 20 Polsternen 137
Scheinbare Örter von 18 Polsternen 278
Hilfsgrößen zur Übertragung mittlerer Polsternörter auf 1919.0 371
siehe auch Präzession, Tafeln

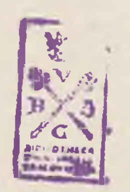
Präzession, Allgemeine seit 1919.0 341
Hilfstafeln für äquatoriale Koordinaten 434
» » ekliptikale » 432

Präzession, Größen m, n, ψ, π, Π 434
Größen zur Reduktion von 1925.0 auf das wahre Aquinoktium 367
Hilfsgrößen zur Übertragung von verschiedenen mittleren Äquinoktien auf 1919.0 371
Hilfsgrößen zur Übertragung mittlerer Polsternörter auf 1919.0 371
Übertragung von Sternörtern vom mittleren Äquinoktium 1919.0 auf das Normaläquinoktium 1925.0 372

Seite
Reduktion auf den scheinbaren Ort, Formeln 338
Reduktionsgrößen log A, log B, log C, log D, E, 10-tägig 339
A, B, C, D, A', B', täglich 358
f, g, G, h, H, i 340
f', g', G' 341
zur Reduktion von 1925.0 auf das wahre Äquinoktium 367
Korrektionstabelle dazu 370
Saturn, Geozentrische Koordinaten nebst Kulminationszeiten 96
Heliozentrische Koordinaten 112
Größe, Phase, Lage zum Saturnsring 388
Saturnsring, Achsen, Lage gegen die Ekliptik 454
Ephemeride 403
Saturnstrabanten 392
Scheinbarer Ort, Formeln zur Reduktion auf den scheinbaren Ort . . 338
siehe auch Reduktionsgrößen
Scheinbare Örter siehe Sterne, Polsterne
Schiefe der Ekliptik, Mittlere 434
Wahre 341
Langperiodische Nutationsglieder $\Delta\varepsilon$ 341
Kurzperiodische Nutationsglieder $\Delta\varepsilon'$ 341
Sonne, Aberration der 38
Anomalie mittlere 38
Apogäum 37
Aufgangszeiten für 50° Breite 3
Reduktionstafel dazu für Breiten zwischen +45° und +55° . 420
Durchgangsdauer, halbe, in Sternzeit 2
Finsternisse 376
Halbmesser, mittlerer Wert III
» Ephemeride 2
Koordinaten Geozentrische äquatoriale 2
Geozentrische ekliptikale 3
Geozentrische rechtwinklige 20
letztere bezogen auf 1925.0 367
Länge mittlere 38
Parallaxe, Konstante der IV
Ephemeride 38
Perigäum 37
Untergangszeiten für 50° Breite 3
Reduktionstafel dazu für Breiten zwischen +45° und +55° . 420
Sternbedeckungen 382
Sterne, Mittlere Örter von 925 Sternen 114
Scheinbare Örter von 573 Sternen 138
Parallaxen von 8 Sternen 451
Sternwarten, Koordinatenverzeichnis 436
Sternzeit, im mittleren Mittag Greenwich 3
für andere Sternwarten 436
Verwandlung in mittlere Zeit 427
in Bruchteilen des tropischen Jahres 339, 358

Seite

Tafeln zur Berechnung
des Julianischen Datums 422
geozentrischer Koordinaten von Orten der Erdoberfläche . . 435
der Verwandlung von Mittlerer Zeit in Sternzeit und umgekehrt 426
der Reduktion auf den scheinbaren Ort 339
der Übertragung mittlerer Sternörter von verschiedenen Äquinoktien auf 1919.0 371
der Übertragung von mittleren Polsternörtern auf 1919.0 . . . 371
der Übertragung von Sternörtern vom mittleren Äquinoktium 1919.0 auf das Normaläquinoktium 1925.0 372
der Präzession in äquatorialen und ekliptikalen Koordinaten . 432
des halben Tagbogens 418
der Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages 428
der Aufgangs- und Untergangszeiten von Sonne und Mond in Breiten zwischen $+45°$ und $+55°$ 420
der optischen Mondlibration 430
Tagbogen, Tafel für den halben 418
Trabanten des Jupiter 386
des Saturn 392
Uranus, Geozentrische Koordinaten nebst Kulminationszeiten 101
Heliozentrische Koordinaten 112
Venus, Geozentrische Koordinaten nebst Kulminationszeiten 73
Heliozentrische Koordinaten 110
Zeichen, Astronomische VIII
des Tierkreises und der Himmelskörper VIII
Zeit, Zeit- und Festrechnung VI
Verwandlung von mittlerer Zeit in Sternzeit und umgekehrt . . 426
Verwandlung von Stunden, Minuten, Sekunden in Dezimalteile des Tages 428
Verwandlung von Mittlerer Zeit in Bruchteile des tropischen Jahres . 340
» » Sternzeit » » » » » 339, 358
Zeitgleichung 2



Druck von A. W. Schade, Berlin N. 39, Schulzendorfer Str. 26.

15. Über systematische Abweichungen der Sternpositionen im Sinne einer jährlichen Refraktion. Von L. Courvoisier. 1913. M. 3.—

16. Mittlere Örter von 2338 Vergleichssternen f. 1865.0, abgeleitet aus Beobachtungen am alten Pistorschen Meridiankreise 1855—68. 1914. M. 3.—

(Fortsetzung siehe „Veröffentlichungen".)

Bremiker, Dr. Carl, Ephemeride des Kometen von Pons für die Monate August 1838 bis Januar 1839 berechnet. Mit einer Einleitung über die angewandten Elemente von J. F. Encke. Nebst 1 Karte. Gr. 8. 1838. M. 1.50

Dirksen, E. H., Über die Anwendung der Analysis auf die Rectifikation der Curven, die Quadratur der Flächen und die Cubatur der Körper. 1835. M. 2.—

— **Über die Darstellbarkeit der Wurzeln** einer allgemeinen algebraischen Gleichung mittelst explicirter algebraischer Ausdrücke von den Coëfficienten. Ein Versuch, die Unmöglichkeit einer allgemeinen Auflösung der algebraischen Gleichungen zu beweisen. 1836. M. 2.—

— **Über die Methoden,** den Wert eines bestimmten Integrals näherungsweise zu bestimmen. 1832. M. 2.—

Dziobek, Dr. Otto, Neue Beiträge zur Theorie des Pascalschen Sechsecks. 1882. M. 1.20

Encke, J. F., Gesammelte mathematische und astronomische Abhandlungen. Gr. 8. 1888/89.

I. Band. Allgemeines betreffend Rechnungsmethoden. M. 7.—

II. Band. Methode der kleinsten Quadrate. Fehlertheoretische Untersuchungen. M. 8.—

III. Band. Astronomische und optische Abhandlungen. M. 5.—

Förster, Dr. W., Prof., Geh. Rat, **Sammlung populärer astronomischer Mitteilungen.** 1878. M. 3.—

— Dasselbe. Zweite Folge. 1884. M. 1.80

— **Sammlung wissenschaftlicher Vorträge.** 1876. M. 4.—

— **Sammlung von Vorträgen und Abhandlungen.** Dritte Folge. 1890. M. 4.—

— Dasselbe. Vierte Folge. 1896. M. 4.—

— **Studien zur Astrometrie.** Gesammelte Abhandlungen. M. 7.—

— **Johann Keppler und die Harmonie der Sphären.** M. 0.80

— **Die Freude an der Astronomie.** M. 1.—

— **Untersuchungen** über das Fraunhofersche Äquatorial. M. 2.—

— **Weltzeit und Ortszeit** im Bunde gegen die Vielheit der sogenannten Einheits- oder Zonen-Zeiten. M. 0.60

Gravelius, Dr. H., Erläuterung der Beziehungen zwischen meteorologisch. und Hochwasser-Erscheinungen im Odergebiet. Im amtlichen Auftrage bearbeitet. (Veröffentl. d. Königl. Wasserausschusses.) Gr. 8. 1895. M. 1.—

— **Lehrbuch der Differentialrechnung.** Zum Gebrauch bei Vorlesungen an Universitäten und technischen Hochschulen. Gr. 8. 1893. M. 6.—

— **Vierstellige Logarithmentafeln.** 12. 1891. M. 0.50

— **Vierstellige Logarithm.-Trigonom. Tafeln** für die Dezimalteilung der Quadranten nebst Tafeln der Logarithmen der Zahlen, Antilogarithmen, Tafeln der Zahlenwerte, der trigonometrischen Funktionen, Gaußschen Logarithmen, Quadrattafeln und Logarithmen der Hyperbelfunktionen. Gr. 8. 1892. M. 1.50

Druck von Oscar Brandstetter in Leipzig

Verlag von Georg Reimer, Berlin.

Astronomischer Jahresbericht,

begründet von

Walter F. Wislicenus.

Mit Unterstützung der »Astronomischen Gesellschaft« herausgegeben.

1900—1916. 8°.

Band I—VI (Jahrg. 1899—1904), hrsg. von W. F. Wislicenus.
» VII—XI (Jahrg. 1905—1909), hrsg. von A. Berberich.
» XII—XVII (Jahrg. 1910—1915), bearbeitet im Kgl. Astronomischen Rechen-Institut, Berlin.

Der »Astronomische Jahresbericht« gibt in kurzen Referaten eine Übersicht über sämtliche in den verschiedenen Kultursprachen neu erschienenen Arbeiten auf dem Gebiete der Astronomie und Astrophysik und berücksichtigt auch tunlichst die Geodäsie und Nautische Astronomie, sowie die einschlägige Instrumententechnik. Der Inhalt eines jeden Bandes ist nach den verschiedenen Wissenschaftszweigen in 6 Teile mit Unterparagraphen gegliedert: I. Allgemeines und Geschichtliches. — II. Instrumente, ihre Technik und Theorie. — III. Sphärische Astronomie. — IV. Theoretische Astronomie. — V. Beobachtungen und ihre Ergebnisse, nach Objekten geordnet. — VI. Geodäsie und Nautische Astronomie. — Jedem Bande ist ein ausführliches Namen- und ein nach Stichworten geordnetes Sachregister beigefügt, so daß sämtliche auf ein einzelnes Gebiet bezüglichen Arbeiten leicht aufzufinden sind.

Druck von A. W. Schade, Berlin N. 39, Schulzendorfer Str. 26.